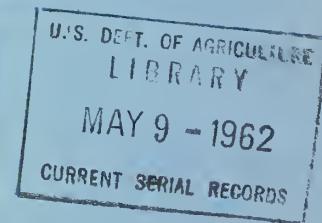
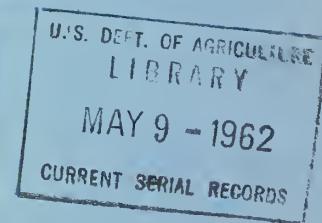


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FEDERAL - STATE - PRIVATE
COOPERATIVE
**SNOW SURVEY and WATER SUPPLY FORECASTS
for
WYOMING**

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies
named above in cooperation with the Bureau of Reclamation,
U.S. Forest Service, National Park Service, and other Federal,
State and private organizations.

AS OF MAR. 1, 1960

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
COLORADO AND STATE OF UTAH	MONTHLY (JAN.-MAY)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER AND OTHER AGENCIES
COLUMBIA AND STATES OF IDAHO AND ALASKA	MONTHLY (JAN.-MAY)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
UPPER MISSOURI AND STATE OF MONTANA	MONTHLY (FEB.-MAY)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
WEST-WIDE	OCT. 1, APR. 1, MAY 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ARIZONA	SEMI-MONTHLY (JAN. 15 - APR. 1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOCIATION ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. AGR. EXP. STATION COLO. STATE ENGINEER N. MEX. STATE ENGINEER
NEVADA	MONTHLY (FEB.-APR.)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-MAY)	PORTLAND, OREGON	ORE. AGR. EXP. STATION OREGON STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-MAY)	SPOKANE, WASHINGTON	WASH. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

Copies of these various reports may be secured from: Head, Water Supply Forecasting Section
Soil Conservation Service
209 S. W. Fifth Ave., Portland 4, Oregon

PUBLISHED BY OTHER AGENCIES

<u>REPORT</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	COMPTROLLER, WATER RIGHTS BR., DEPT. OF LANDS AND FORESTS, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIFORNIA DEPT. OF WATER RESOURCES, SACRAMENTO, CALIFORNIA

FEDERAL-STATE COOPERATIVE
SNOW SURVEYS AND WATER FORECASTS
FOR
WYOMING

Issued
March 1, 1960

Report Prepared
by
George W. Peak
Snow Survey Supervisor
State of Wyoming

Soil Conservation Service
345 East 2nd Street
P. O. Box 699
Casper, Wyoming

Issued by

B. H. Hopkins
State Conservationist
Soil Conservation Service

Earl Lloyd
State Engineer of Wyoming
Cheyenne, Wyoming

PRELIMINARY WATER SUPPLY OUTLOOK
FOR
WYOMING

March 1, 1960

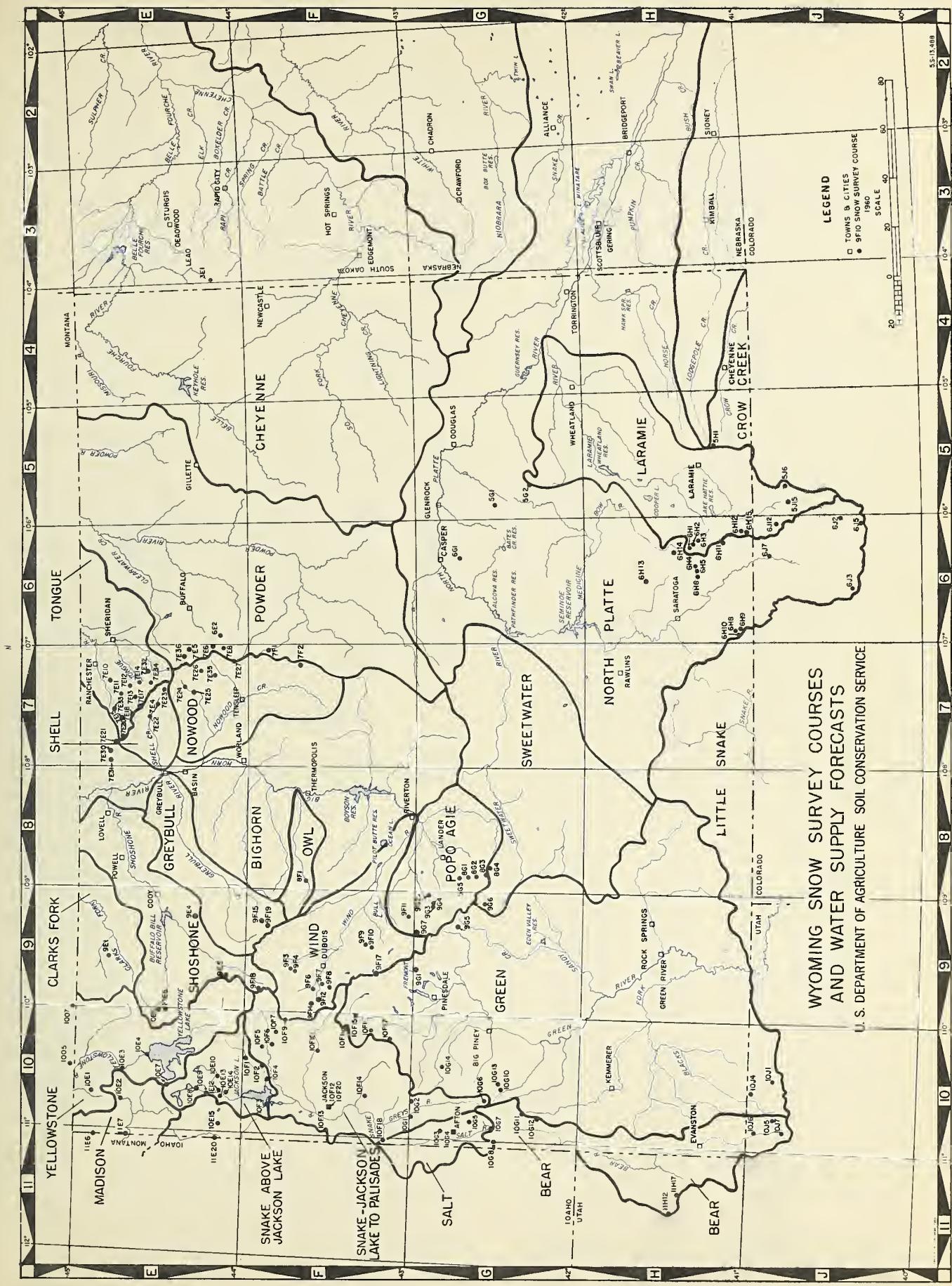
*
*
* Although some areas throughout the state have improved to *
* some extent the snow surveys still indicate a serious deficit *
* in many areas. In general, soil moisture is close to normal *
* in mountainous areas but high winds during November and *
* December have reduced the snow water storage indicated by *
* the snow courses. Unless subsequent spring storms prove *
* to be considerably above normal and late winter winds *
* considerably less than normal, this state, in most areas, *
* may anticipate an inadequate seasonal water supply. *
*
* *

The report by drainages is as follows: The Snake River at Moran is down to 60 per cent of the 1943-57 average, which is the base period for comparative purposes. Down stream, the anticipated runoff from tributaries increases to about 70 per cent of the normal inflow into Palisades reservoir. On the periphery of the Green River, snow surveys, soil moisture requirements and evaporation factors indicate a seasonal (April-September) supply of 65 per cent of normal at Warren Bridge and Fontenelle, with reduced discharges from the Little Snake River and Blacks Fork. The Wind River at Dubois is estimated at 77,000 acre feet, or 70 per cent of normal and the Shoshone River snow pack indicates 70 per cent of normal into Buffalo Bill reservoir. Flow from the Big Horn Mountains is estimated at this date to be close to average. The North Platte and its tributaries have improved over last month's estimate. The North Platte at Northgate is expected to yield 57 per cent, the Encampment River and Snowy Range watersheds indicate a release of 62 per cent for the season and the flow in the North Platte past Saratoga is forecast at 390,000 acre feet, or 59 per cent of normal.

Reservoir storage on the North Platte in Wyoming is close to 70 per cent of the March 1 normal, reflecting the low runoff of 1959.

The Soil and Water Conservation Districts and Irrigation Districts under the Laramie River also face a serious shortage unless subsequent snow surveys find far above normal increments to the snow pack. At this date the watershed above Jelm indicates a flow of 79,000 acre feet, or 70 per cent of normal. The Wheatland reservoir contains 26,200 acre feet of storage which is 28 per cent of capacity.

The snow surveys are made on the first of each month, February 1 to and including May 1. As the season advances information concerning current conditions will be made available until snow melt occurs.



INDEX TO WYOMING SNOW COURSES

LOCATION												LOCATION												
DRainage Basin	Wyoming	Number	Elev.	Sec.	Lat.	Twp.	Range	Long.	Record	Meas.	Meas.	DRainage Basin	Wyoming	Number	Elev.	Sec.	Lat.	Twp.	Range	Long.	Record	Meas.	Meas.	
MISSOURI RIVER DRAINAGE												MISSOURI RIVER DRAINAGE												
MADISON RIVER												CROW CREEK												
Norris Basin	10E2	7500	44°44'		110°42'		1936	2,3,4,5	2			Pole Mountain #2	5H1	8700	35	15N	72W		1936	2,3,4,5	1			
21 Mile -m	11E6	7150	1	11S	5E		1934	1,2,3,4,5	6			NORTH PLATTE												
West Yellowstone -m	11E7	6700	34	13S	5E		1934	1,2,3,4,5	6			Albany	6H11	9400	18	14N	78W	1949	2,3,4,5	1				
YELLOWSTONE												Bottle Creek	6H8	8200	24	14N	85W	1936	2,3,4,5	1				
Canyon	10E3	7750	44°44'		110°30'		1938	1,2,3,4,5	1			Boxelder	5G1	9300	31	30N	75W	1936	2,3,4,5	1				
Cooke City -m	1007	7400	25	9S	14E		1937	1,2,3,4,5	2			Casper Mountain	6G1	8700	16	32N	79W	1954	1,2,3,4,5	1				
Crevice Mountain -m	1005	8400	22	9S	9E		1935	3,4	4			Columbine -c	6J2	9300	21	5N	82W	1936	2,3,4,5	1				
East Entrance	10E6	7000	17	52N	109W		1948	1,2,3,4,5	2			Elk Mountain	6H13	10000	8	19N	81W	1951	2,3,4	1				
Lake Camp	10E4	7850	44°34'		110°24'		1937	1,2,3,4,5	1			Fox Park	6H12	9200	21	13N	78W	1936	2,3,4,5	4				
Lupine Creek	10E1	7300	44°54'		110°37'		1938	1,2,3,4,5	2			LaBonte	5G2	8450	11	27N	74W	1949	2,3,4,5	1				
Thumb Olivide	10E7	7900	44°22'		110°35'		1946	2,3,4	5			North Barrett Creek #2	6H5	9400	30	16N	80W	1936	2,3,4,5	1				
Sylvan Pass	10E5	7100	12	52N	110W		1936	1,2,3,4,5	2			North French Creek #1	6H4	10200	27	16N	80W	1938	2,3,4,5	1				
CLARK'S FORK												Northgate -c	6J7	8500	7	11N	79W	1950	2,3,4,5	1				
Lodgepole	9E1	8200	32	56N	106W		1940	2,3,4,5	1,4			Old Battle	6H10	9800	29	14N	85W	1936	2,3,4,5	1				
WINO RIVER												Park View -c	6J2	9200	24	5N	76W	1936	2,3,4,5	1				
Big Warm	9F12	8800	36	42N	109W		1955	2,3,4,5	1			Ryan Park #2	6H6	8400	34	16N	81W	1936	2,3,4,5	1				
Burroughs Creek	9F4	8800	15	43N	107W		1948	2,3,4,5	1			Webber Spring	6H9	9000	27	14N	85W	1936	2,3,4,5	1				
Oinwoodie	9F10	10000	9	36N	105W		1948	2,3,4,5	1,3			Willow Creek Pass -c	6J5	9500	1	4N	78W	1938	2,3,4,5	1				
Oinwoodie Glaciers	9F17	10500	43°14'		109°35'		1959	2,3,4	1			CHEYENNE RIVER												
Dry Creek	9F9	9500	34	4N	105W		1948	2,3,4,5	1,3			Upper Spearfish -s	3E1	6500	21	3N	1E	1944	2,3,4	4				
DeNoir	9F6	8750	27	42N	108W		1940	2,3,4,5	1			GREEN RIVER & POPO AGIE RIVER												
Geyser Creek	9F7	8500	12	41N	108W		1948	2,3,4,5	1			Twenty Lakes	9G7	10500	2	1S	5W	1959	2,3,4	1				
Little Warm	9F8	9500	24	41N	108W		1948	2,3,4,5	1			GREEN RIVER & WINO RIVER												
Sheridan R.S. #2	9F14	7500	3	42N	109W		1955	2,3,4,5	1			Oinwoodie Glaciers	9F17	10500	43°14'	109°35'	1	1959	2,3,4	1				
T-Cross Ranch	9F3	8000	1	43N	107W		1940	2,3,4,5	1			COLORADO RIVER DRAINAGE												
Togwotee Pass	10F9	9500	29	44N	110W		1936	2,3,4,5	5			GREEN RIVER												
POPO AGIE RIVER												Big Park	10G11	8700	7	27N	117W	1951	2,3,4,5	1				
Blue Ridge	BG2	9500	23	3IN	101W		1939	2,3,4,5	1			Blind Bull	10G2	8700	6	34N	115W	1948	2,3,4,	1				
Bruce's Camp	BG5	6500	24	32N	101W		1955	2,3,4	1			Dutch Joe R.S.	9G5	8700	32	31N	104W	1935	2,3,4,5	1				
Hobbs Park	9G3	10000	22	25	3W		1948	2,3,4,5	1,3			East Rim Olivide	10F17	7950	32	37N	111W	1936	1,2,3,4,5	1				
Mosquito Park R.S.	9G4	9500	23	25	3W		1940	2,3,4,5	1,3			Gros Ventre	10F19	8700	36	40N	111W	1948	2,3,4,5	1				
Sawmill Glade	8G1	8500	3	3IN	101W		1939	2,3,4,5	1			Hewitt R.S. -u	10J4	9500	33	3N	13E	1930	4					
South Pass	BG3	9000	13	30N	101W		1939	2,3,4,5	1			Hole-in-the-Rock -u	10J1	9150	13	2N	15E	1931	4					
St. Lawrence R.S.	9F11	9000	26	1N	4W		1940	2,3,4,5	1,3			Kelly R.S.	10G12	8200	13	26N	118W	1951	2,3,4,5	1				
Trout Creek	9G2	8400	5	25	2W		1948	2,3,4,5	1,3			Kendall R.S.	10F15	7900	23	38N	110W	1936	2,3,4,5	1				
Twenty Lakes	9G7	10500	2	1S	5W		1959	2,3,4	1			Loomis Park	10F16	8500	14	37N	111W	1936	2,3,4,5	1				
OWL CREEK												Mulligan Park	9G1	8900	17	35N	108W	1936	2,3,4,5	1				
Owl Creek	BF1	8700	36	43N	101W		1948	2,3,4,5	1			Old Battle	6H10	8600	29	14N	85W	1936	2,3,4,5	1				
GREYBULL RIVER												Piney LaBarge	10G10	8820	19	29N	114W	1937	2,3,4,5	1				
Kirwin	9F19	11000	13	45N	104W		1960	2,3,4	1			Poison Meadows	10G6	8500	29	30N	116W	1948	2,3,4,5	1				
Wood River #2	9F15	8000	28	46N	103W		1956	2,3,4,5	1			Soda Lake	10G14	8300	14	33N	115W	1955	2,3,4,5	1				
SHOSHONE RIVER												COREY RIVER & POPO AGIE RIVER												
Carter Mountain	9E4	7800	15	50N	103W		1957	1,2,3,4	1			Twenty Lakes	9G7	10500	2	1S	5W	1959	2,3,4	1				
East Entrance	10E5	7000	17	52N	109W		1948	1,2,3,4,5	2			GREEN RIVER & WINO RIVER												
Ishawooa Cone	9E5	9200	44°13'		109°47'		1960	2,3,4	1			Oinwoodie Glaciers	9F17	10500	43°14'	109°35'	1	1959	2,3,4	1				
Sylvan Pass	10E5	7100	12	52N	110W		1936	1,2,3,4,5	2			COLUMBIA RIVER DRAINAGE												
Younts Peak	9F18	8500	43°56'		109°49'		1960	2,3,4	1			SNAKE RIVER BASIN (Above Jackson Lake)												
COLDWOOD CREEK												Arizona	10F1	6850	3	46N	113W	1919	2,3,4	5				
Cold Springs Camp	7E25	8700	1	5IN	87W		1956	2,3,4,5	1			Aster Creek	10E8	7700	44°17'	110°37'	1919	2,3,4	5					
Medicine Lodge Lakes	7E24	3500	7	5IN	87W		1956	2,3,4,5	1			Base Camp	10F2	6800	20	46N	113W	1947	2,3,4	5				
Munkers Pass	7E8	9700	11	48N	85W		1950	2,3,4,5	1			Coulter Creek	10E10	7600	44°09'	110°33'	1919	2,3,4	2					
Onion Gulch	7E27	8100	31	48N	85W		1956	2,3,4,5	1			Glade Creek	10E13	7200	44°08'	110°44'	1919	2,3,4	5					
Tensleep Lake	7E26	9075	33	50N	88W		1956	2,3,4,5	1			Grassy Lake	10E15	7265	6	48N	117W	1940	2,3,4,5	5				
Tyrell R.S.	7E35	8300	30	49N	86W		1956	2,3,4,5	1			Huckleberry Olivide	10E14	7300	32	48N	115W	1919	2,3,4	5				
SHELL CREEK												Lewis Lake Olivide	10E9	7900	44°13'	110°40'	1919	2,3,4,5	5					
Bald Mountain	7E21	9600	33	56N	91W		1956	2,3,4,5	1			Moran Bay	10F4	6800	8,17	45N	114W	1919	2,3,4	5				
Beaver-Tongue Olivide	7E20	9200	12	55N	91W		1956	2,3,4,5	1			Snake River Station	10E12	6780	44°08'	110°40'	1919	2,3,4	5					
Big Goose #2	7E32	7700	4	53N	86W		1955	2,3,4,5	1			Thum Olivide	10E7	7900	44°22'	110°35'	1951	2,3,4,5	1					
Bone-Spring Olivide	7E18	9200	32	55N	89W		1956	2,3,4,5	1			JACKSON LAKE TO PALISADES												
Burgess R.S. #2	7E33	7900	36	56N	89W		1956	2,3,4,5	1			Afton R.S.	10F4	6200	30	32N	118W	1936	1,2,3,4,5	4				
Oome Lake #2	7E34	8800	11	53N	87W		1950	2,3,4,5	1			Blackrock	10F7	6700	4	44N	118W	1936	2,3,4	5				
Gloom Creek	7E14	9300	32	55N	87W		1956	2,3,4,5	1			Blind Bull	10G2	8750	6	34N	115W	1948	2,3,4	1				
Granite Pass	7E17	8950	19	54N	88W		1956	2,3,4,5	1			Bryan Flat	10F14	6250	9	38N	115W	1936	1,2,3,4,5	1				
North Tongue	7E15	8600	17	55N	89W		1956	2,3,4,5	1			CCC Camp	10G7	7500	9	29N	118W	1936	1,2,3,4,5					

WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1960

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS						Prior 1943-57 Yrs. of Average Record	
			1960			PAST RECORD				
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1959	1958		

MADISON RIVER - YELLOWSTONE PARK

Norris Basin ÷	10E2	7500	3/1	30	4.0	9.1	7.9	8.6*	17
21 Mile ^m	11E6	7150	2/24	37	7.8	14.3	11.5	16.0	23
West Yellowstone ^m	11E7	6700	2/24	23	5.2	8.2	5.6	13.3	26

UPPER YELLOWSTONE - YELLOWSTONE PARK

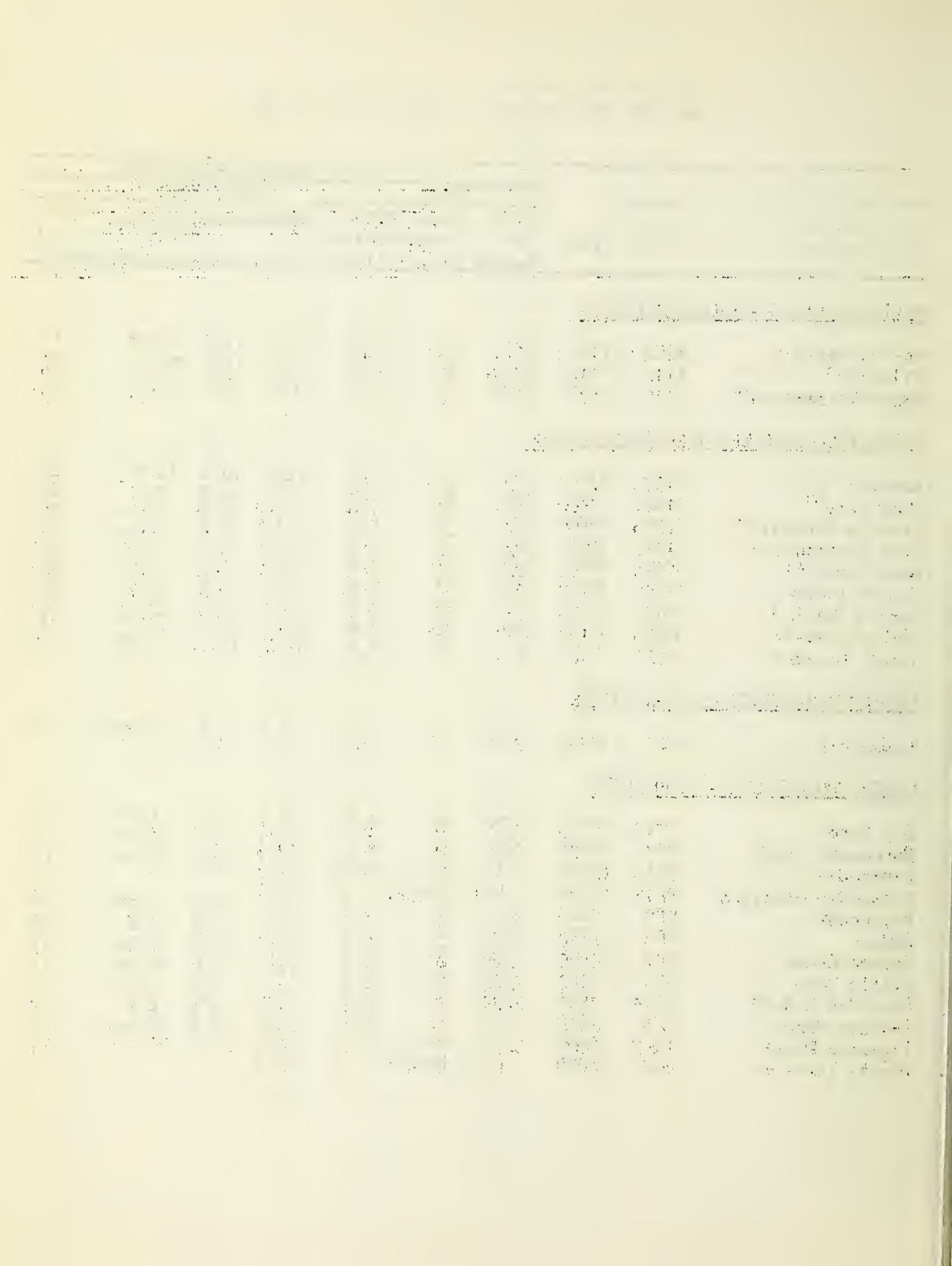
Canyon	10E3	7750	3/1	35	7.4	12.7	10.3	12.7*	21
Cook City ^m	10D7	7400	3/1	22	4.2	7.5	4.6	7.8	23
Crevice Mountain ^m	10D5	8400	3/2	36	7.6E	7.5	5.3	8.2	21
East Entrance ÷	10E6	7000	3/1	24	5.3	11.4	8.3	11.0**	11
Lake Camp #1	10E4	7850	3/1	27	4.8	8.1	7.0	9.2*	20
Lupine Creek	10E1	7300	3/1	27	5.6	9.5	5.6	9.7*	20
Norris Basin ÷	10E2	7500	3/1	30	4.0	9.1	7.9	8.6*	17
Sylvan Pass ÷	10E5	7100	3/1	32	7.6	14.1	11.6	13.1*	16
Thumb Divide ÷	10E7	7900	3/1	39	10.3	16.7	15.3	21.2**	9

LOWER YELLOWSTONE - CLARK'S FORK

Lodgepole	9E1	8200	2/29	25	5.0	9.9	6.8	10.0**	4
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LOWER YELLOWSTONE - WIND RIVER

Big Warm	9F12	8800	2/27	26	5.0	8.1	5.7	7.2**	5
Burroughs Creek	9F4	8800	2/29	28	6.0	13.3	8.8	13.4**	11
Dinwoodie	9F10	10000	3/1	34	8.0	9.7	6.7	10.8**	11
Dinwoodie Glaciers	9F17	10500	Late Report		E	9.7			1
Dry Creek	9F9	9500	3/1	20	3.7	5.7	3.0	4.5**	11
DuNoir	9F6	8750	2/27	21	4.1	6.7	3.8	7.8	19
Geyser Creek	9F7	8500	2/28	20	4.0	6.0	3.0	7.0**	11
Little Warm	9F8	9500	2/28	43	10.7	14.1	9.9	14.7**	11
Sheridan R.S.#2	9F14	7500	2/29	20	3.7	5.8	6.4	6.1**	5
T-Cross Ranch	9F3	8000	2/29	17	3.1	6.0	2.5	6.8	19
Togwotee Pass ÷	10F9	9600	3/2	64	19.1	26.8	21.5	26.4**	10
Twenty Lakes ÷	9G7	10000	Late Report		E	2.0			1



WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1960

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS					
			1960			PAST RECORD		
			Date of Survey	Snow Depth (in.)	Water Content (in.)	Water Content (in.)	1943-57	Prior Yrs.of Record
						1959	1958	Average

LOWER YELLOWSTONE - POPO AGIE RIVER

Blue Ridge	8G2	9500	2/23	32	5.3	5.8	5.7	11.2*	20
Bruce's Camp	8G5	6500	2/23	23	2.9	3.2			2
Hobbs Park	9G3	10000	3/4	42	11.3	11.3	7.5	15.8**	11
Mosquito Park R.S.	9G4	9500	3/4	26	5.8	4.8	3.4	7.1*	16
Sawmill Glade	8G1	8500	2/23	33	4.7	5.1	4.6	6.9	20
South Pass ÷	8G3	9000	2/23	36	7.1	8.4	7.2	13.2	20
St. Lawrence R.S.	9F11	9000	3/3	19	3.8	4.6	2.0	6.1*	16
Trout Creek	9G2	8400	3/4	25	5.6	4.4	3.0	5.1**	11
Twenty Lakes ÷	9G7	10000	Late Report		E	5.3			1

LOWER YELLOWSTONE - OWL CREEK

Kirwin ÷	9F19	11000	2/28	51	13.5E				
Owl Creek	8F1	8700	2/23	32	6.9	5.0	3.3	4.6**	11

LOWER YELLOWSTONE - GREYBULL RIVER

Kirwin ÷	9F19	11000	2/28	51	13.5E				
Timber Creek #2	9E3	8800		NR		2.8	2.3	2.8**e	5
Wood River #2	9F1	8000		NR		4.6	3.2	4.0**	5

LOWER YELLOWSTONE - SHOSHONE RIVER

Carter Mountain	9E4	7800	2/24	21	4.2	3.4	3.3		3
East Entrance ÷	10E6	7000	3/1	24	5.3	11.4	8.3	11.0**e	11
Ishawoooa	9E5	9200	2/28	125	E				
Sylvan Pass ÷	10E5	7100	3/1	32	7.6	14.1	11.6	13.1*	16
Younts Peak	9F18	8500	2/28	80	26.0E	7.5			
Togwotee Pass	10F9	9600	3/2	64	19.1	26.8	21.5	26.4**	10

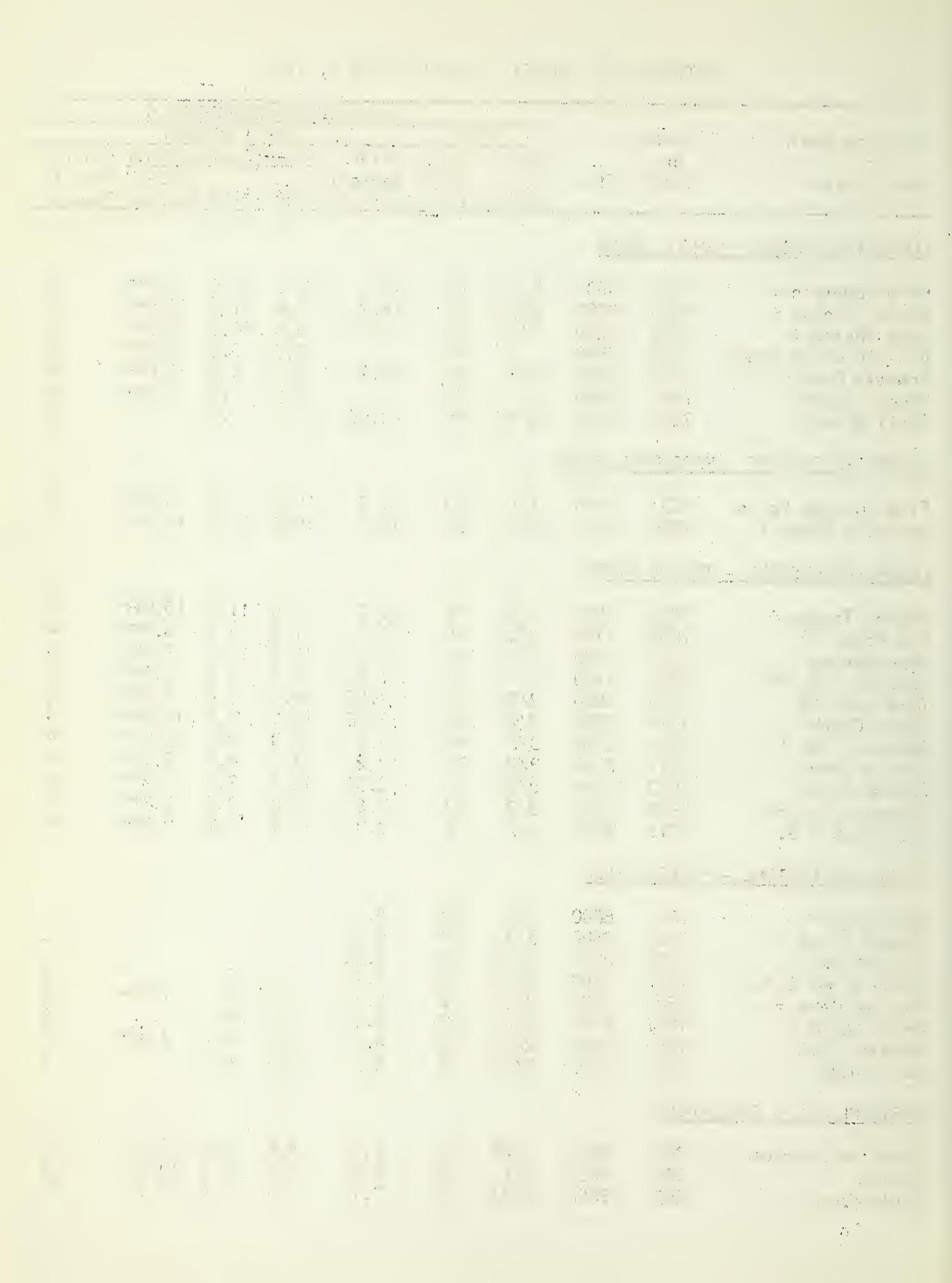
LOWER YELLOWSTONE - NOWOOD CREEK

Bear Trap ÷	7F1	8000	3/2	24	4.1				
Canyon Creek ÷	7F2	7400	3/3	39	8.7				
Cold Springs Camp	7E25	8700	2/25	24	4.9	8.8	NR		3
Medicine Lodge Lakes	7E24	9500	2/25	37	8.0	10.9	NR		3
Munkres Pass ÷	7E8	9400	2/29	32	6.8	7.2	NR	7.4**	4
Onion Gulch ÷	7E27	8100	3/2	29	5.2	9.5	NR		3
Tensleep R.S	7E7	8300		NR		8.2	5.0	6.1**	5
Tyrell R.S.	7E35	8300		NR		8.8	NR		2
West Tensleep	7E26	9075	2/28	40	9.5E	11.2	NR		3

	$\sum_{i=1}^n \frac{1}{i}$	$\sum_{i=1}^n \frac{1}{i^2}$	$\sum_{i=1}^n \frac{1}{i^3}$	$\sum_{i=1}^n \frac{1}{i^4}$
1	1	1	1	1
2	1.5	1.64	1.48	1.39
3	1.83	1.86	1.79	1.75
4	2.08	2.00	1.93	1.89
5	2.29	2.23	2.14	2.09
6	2.45	2.35	2.25	2.18
7	2.59	2.50	2.39	2.30
8	2.72	2.63	2.53	2.44
9	2.84	2.74	2.64	2.55
10	2.96	2.84	2.74	2.65
11	3.07	2.93	2.83	2.73
12	3.17	3.01	2.91	2.81
13	3.26	3.08	2.98	2.88
14	3.35	3.14	3.07	2.96
15	3.43	3.19	3.14	3.03
16	3.51	3.24	3.21	3.10
17	3.58	3.28	3.28	3.17
18	3.65	3.32	3.35	3.23
19	3.71	3.36	3.41	3.29
20	3.77	3.40	3.47	3.35
21	3.82	3.43	3.53	3.41
22	3.87	3.46	3.59	3.47
23	3.91	3.49	3.64	3.52
24	3.95	3.52	3.69	3.57
25	3.98	3.54	3.74	3.61
26	4.01	3.56	3.79	3.66
27	4.04	3.58	3.84	3.70
28	4.06	3.60	3.88	3.74
29	4.08	3.61	3.92	3.78
30	4.10	3.63	3.96	3.82
31	4.12	3.64	4.00	3.86
32	4.13	3.65	4.04	3.90
33	4.14	3.66	4.08	3.94
34	4.15	3.67	4.12	3.98
35	4.16	3.68	4.16	4.02
36	4.17	3.69	4.20	4.06
37	4.18	3.70	4.24	4.10
38	4.19	3.71	4.28	4.14
39	4.20	3.72	4.32	4.18
40	4.21	3.73	4.36	4.22
41	4.22	3.74	4.40	4.26
42	4.23	3.75	4.44	4.30
43	4.24	3.76	4.48	4.34
44	4.25	3.77	4.52	4.38
45	4.26	3.78	4.56	4.42
46	4.27	3.79	4.60	4.46
47	4.28	3.80	4.64	4.50
48	4.29	3.81	4.68	4.54
49	4.30	3.82	4.72	4.58
50	4.31	3.83	4.76	4.62
51	4.32	3.84	4.80	4.66
52	4.33	3.85	4.84	4.70
53	4.34	3.86	4.88	4.74
54	4.35	3.87	4.92	4.78
55	4.36	3.88	4.96	4.82
56	4.37	3.89	5.00	4.86
57	4.38	3.90	5.04	4.90
58	4.39	3.91	5.08	4.94
59	4.40	3.92	5.12	4.98
60	4.41	3.93	5.16	5.02
61	4.42	3.94	5.20	5.06
62	4.43	3.95	5.24	5.10
63	4.44	3.96	5.28	5.14
64	4.45	3.97	5.32	5.18
65	4.46	3.98	5.36	5.22
66	4.47	3.99	5.40	5.26
67	4.48	4.00	5.44	5.30
68	4.49	4.01	5.48	5.34
69	4.50	4.02	5.52	5.38
70	4.51	4.03	5.56	5.42
71	4.52	4.04	5.60	5.46
72	4.53	4.05	5.64	5.50
73	4.54	4.06	5.68	5.54
74	4.55	4.07	5.72	5.58
75	4.56	4.08	5.76	5.62
76	4.57	4.09	5.80	5.66
77	4.58	4.10	5.84	5.70
78	4.59	4.11	5.88	5.74
79	4.60	4.12	5.92	5.78
80	4.61	4.13	5.96	5.82
81	4.62	4.14	6.00	5.86
82	4.63	4.15	6.04	5.90
83	4.64	4.16	6.08	5.94
84	4.65	4.17	6.12	5.98
85	4.66	4.18	6.16	6.02
86	4.67	4.19	6.20	6.06
87	4.68	4.20	6.24	6.10
88	4.69	4.21	6.28	6.14
89	4.70	4.22	6.32	6.18
90	4.71	4.23	6.36	6.22
91	4.72	4.24	6.40	6.26
92	4.73	4.25	6.44	6.30
93	4.74	4.26	6.48	6.34
94	4.75	4.27	6.52	6.38
95	4.76	4.28	6.56	6.42
96	4.77	4.29	6.60	6.46
97	4.78	4.30	6.64	6.50
98	4.79	4.31	6.68	6.54
99	4.80	4.32	6.72	6.58
100	4.81	4.33	6.76	6.62

WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1960

Drainage Basin and Snow Course	Number or State Elev.	SNOW COVER MEASUREMENTS							
		1960				PAST RECORD			
		Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1959	1958	Prior 1943-57 Yrs. of Average Record	
<u>LOWER YELLOWSTONE - SHELL CREEK</u>									
Bald Mountain ÷	7E21	9600	2/29	62	17.6	20.8	12.6	15.8**	4
Beaver Tongue ÷	7E20	9200	2/29	58	16.2	19.8	11.8	15.0**	4
Bone Spring ÷	7E18	9200	2/28	49	13.0E	16.4	10.2	13.0**	4
Granite Creek Camp	7E22	7800		NR		6.4	3.2	4.5**	4
Granite Pass ÷	7E17	8950	3/2	48	13.2	15.3	9.8	13.0**	4
Ranger Creek	7E4	8800		NR		9.7	6.2	7.9**	4
Shell Creek	7E23	9600	2/28	45	12.5E	13.1	9.8		3
<u>LOWER YELLOWSTONE - PORCUPINE CREEK</u>									
Five Springs Falls	7E31	7500	3/1	25	5.4	10.8	4.6	5.8**	4
Medicine Wheel ÷	7E30	9000	2/29	51	15.2	19.0	10.5	13.1**	4
<u>LOWER YELLOWSTONE - TONGUE RIVER</u>									
Beaver Tongue ÷	7E20	9200	2/29	58	16.2	19.8	11.8	15.0**	4
Big Goose #2	7E32	7700	2/25	30	6.6	7.2	4.3	5.9**	4
Bone Spring ÷	7E18	9200	2/28	49	13.0E	16.4	10.2	13.0**	4
Burgess R.S. #2	7E33	7900	3/1	31	7.6	8.7	4.4	6.0**	4
Dome Lake #2	7E34	8800	2/28	35	7.5E	8.6	5.4	7.7**e	4
Gloom Creek	7E14	9300	2/28	48	13.0E	13.1	7.8	10.0**	4
Granite Pass ÷	7E17	8950	3/2	48	13.2	15.3	9.8	13.0**	4
Sibley Lake	7E11	8000	3/2	39	9.2	11.7	6.4	8.0**	4
Sucker Creek	7E12	9000	2/28	45	12.5E	12.8	7.7	9.3**	4
Steamboat Point	7E10	7500	3/2	31	7.6	9.0	3.5	5.7**	4
Wood Rock G.S.	7E13	8500	3/2	38	9.3	10.1	6.2	8.3**	4
<u>LOWER YELLOWSTONE - POWDER RIVER</u>									
Bear Trap ÷	7F1	8000	3/2	24	4.1				
Canyon Creek ÷	7F2	7400	3/3	39	8.7				
Clouds Peak	7E36	10000	2/28	34	7.5E				
Muddy Creek G.S. ÷	7E28	7800	2/29	15	3.4	5.0	NR		3
Munkres Pass ÷	7E8	9700	2/29	32	6.8	7.2	NR	7.4**	4
Onion Gulch ÷	7E27	8100	3/2	29	5.2	9.5	NR		3
Soldier Park	7E5	8700	2/26	20	4.3	5.5	3.7	4.0**	8
Sour Dough	7E6	8500	2/26	22	4.1	6.3	4.7		3
<u>NORTH PLATTE - SWEETWATER</u>									
Grannier Meadows #1 ÷	8G4	9000	2/23	38	8.3	6.6	6.7	13.1	23
Larsen	9G6	9000	3/1	23	5.5	8.5	8.4	10.6**	9
South Pass ÷	8G3	9000	2/23	36	7.1	8.4	7.2	13.2	20



WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1960

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS						
			1960			PAST RECORD			
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1959	1958	Prior 1943=57 Yrs.of Average Record

NORTH PLATTE - LARAMIE RIVER

Albany ÷	6H11	9400	2/29	38	8.5E	13.4	11.0	12.6**	11
Brooklyn Lake #1÷	6H1	10200	2/29	48	14.5	20.3	20.2	19.5	23
Brooklyn Lake #2 ÷	6H13	10200	2/29	50	14.1	20.2	18.9	21.2**	4
Cameron Pass ^c ÷	5J1	10300	2/29	60	18.0E	19.8	18.0	18.0	23
Chambers Lake ^c	5J2	9000	2/28	20	7.0	11.7	8.1	7.0	23
Deadman Hill ^c ÷	5J6	10200	2/29	54	14.0E	14.0	12.5	12.2	23
Evans ÷	6H15	9000	2/25	25	5.7				
Fox Park ÷	6H12	9200	2/26	22	4.5	5.6	7.0	6.0	23
Hairpin Turn #2	6H2	9500	2/29	24	5.7	10.8	9.7	10.2	22
LaBonte ÷	5G2	8450	2/26	17	3.0	4.4	3.4	5.4**	11
Libby Lodge #2	6H3	8700	2/29	22	4.6	10.0	8.9	9.2	22
Lost Lake ^c ÷	5J23	9300	2/28	35	8.1	14.2	9.8	9.8	8
Pole Mountain #2 ÷	5H1	8700	3/1	14	2.5	3.6	2.1	4.4	24
Roach ^c	6J8	8900	2/29	58	14.8E	16.0	14.8	15.7	19
Rock Creek ÷	6H13	9800	2/29	58	16.5E	NR			

NORTH PLATTE - CROW CREEK

Pole Mountain #2 ÷	5H1	8700	3/1	14	2.5	3.6	2.1	4.4	24
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NORTH PLATTE - ABOVE SEMINOE RESERVOIR

Albany ÷	6H11	9400	2/29	38	8.5E	13.4	11.0	12.6**	11
Bottle Creek	6H8	8200	3/2	31	7.6	11.3	9.7	12.2	22
Boxelder ÷	5G1	9000	3/7	27	6.5	5.2	4.0	4.7**	10
Cameron Pass ^c ÷	5J1	10300	2/29	60	18.0E	19.8	18.0	18.0	23
Casper Mountain ÷	6G1	8700	2/29	47	11.4	8.2	8.4	8.8**	4
Columbine ^c ÷	6J3	9300	2/25	60	16.4	22.2	21.8	19.6	24
Elk Mountain	6H14	9500	2/29	22	4.5E	NR			
Evans ÷	6H15	9000	2/25	25	5.7	NR			
Fox Park ÷	6H12	9200	2/26	22	4.5	5.6	7.0	6.0	23
LaBonte ÷	5G2	8450	2/26	17	3.0	4.4	3.4	5.4**	11
North Barrett	6H5	9400	2/29	42	11.0E	NR	20.6	14.6	23
North French	6H4	10200	2/29	68	18.5E	NR	31.2	23.0	21
Northgate ^c	6J7	8500	2/25	21	4.5	5.2	4.3	6.2	10
Old Battle ÷	6H10	9800	3/2	70	20.5E	20.2	26.6	25.8	23
Park View ^c	6J2	9200	2/24	34	7.5	6.6	5.2	7.7	24
Rock Creek ÷	6H13	9800	2/29	58	16.5E	NR			
Ryan Park	6H6	8400	2/29	26	5.5E	NR	10.2	8.7	22
Webber Spring	6H9	9000	3/2	39	10.1	12.5	12.6	15.5	22
Willow Creek Pass ^c	6J5	9500	2/24	42	10.0	10.1	8.8	13.6	22

WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1960

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS							
			1960			PAST RECORD				
			Date of Survey (In.)	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1943-57	1959	1958	Average

NORTH LARAMIE MOUNTAINS

Boxelder ÷	5G1	9000	3/7	27	6.5	5.2	4.0	4.7**	10
Casper Mountain ÷	6G1	8700	2/29	47	11.4	8.2	8.4	8.8**	4
LaBonte ÷	5G2	8450	2/26	17	3.0	4.4	3.4	5.4**	11

UPPER COLORADO - GREEN RIVER

Big Park ÷	10G11	8700	Late Report		15.5	17.9	17.6**	9
Blind Bull ÷	10G2	8750	Late Report		22.0	N.R.	28.4**	8
Dutch Joe R.S.	9G5	8700	3/2	24	5.7	6.5	7.6	7.9**
East Rim Divide ÷	10F17	7950	2/29	23	4.7	10.4	8.9	10.5
Grennier Meadows	8G4	9000	2/23	38	8.3	6.6	6.7	13.1
Gros Ventre ÷	10F19	8750	3/8	49	14.0E	11.9	7.2	10.8**
Kelly R.S. ÷	10G12	8200	Late Report		N.R.	17.4		3
Kendall R.S.	10F15	7900	2/26	22	5.2	8.9	7.5	10.5*
Loomis Park ÷	10F16	8500	2/23	38	9.1	16.0	13.4	15.9
Mulligan Park	9G1	8900	2/26	23	5.2	9.8	N.R.	9.6
Old Battle ÷	6H10	9800	3/2	70	20.5E	20.2	26.6	25.8
Piney LaBarge	10G10	8820	2/24	40	11.1	14.6	18.6	17.8**
Poison Meadows ÷	10G6	8500	Late Report		22.3	28.6	25.6**	12
Snyder Basin #2	10G13	8040	2/24	33	8.7	12.4	16.1	14.7**
Soda Lake	10G14	8300	2/25	37	9.6	15.5	17.8	3
South Pass	8G3	9000	2/23	36	7.1	8.4	7.2	13.2
Triple Peaks	10G15	8600	2/25	49	14.0	23.1	26.1	3

SNAKE RIVER - ABOVE JACKSON LAKE

Arizona	10F1	6850	2/29	40	10.8	14.7	14.8	17.4**e	11
Astor Creek	10E8	7700	3/1	49	14.6	24.1	21.8	30.3**e	9
Base Camp	10F2	6900	3/1	40	10.5	15.3	13.8	17.9**e	11
Coulter Creek	10E10	7000	2/26	50	12.8	18.7	18.9	21.8**e	9
Glade Creek	10E13	7200	2/29	45	12.0	17.1	19.5	20.8**e	9
Grassy Lake	10E15	7265	2/29	68	20.1	28.7	28.0	30.6	20
Huckleberry Divide	10E14	7300	2/29	43	10.9	15.6	17.1	18.1**e	9
Lewis Lake Divide	10E9	7900	3/1	66	21.1	36.4	34.1	40.0**e	9
Moran	10F4	6800	3/1	36	9.5	11.3	11.5	11.2**e	9
Moran Bay	10F3	6800	3/1	48	13.3	18.6	21.5	19.7**e	9
Snake River Station	10E12	6780	2/29	44	11.7	16.8	18.1	19.0**e	9
Thumb Divide	10E7	7900	3/1	39	10.3	16.7	15.3	21.2**e	9

WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1960

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS							
			1960			PAST RECORD				
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1959	1958	Average	Prior Record
JACKSON LAKE TO PALISADES										

Afton R.S.	10G4	6200	2/26	21	6.2	4.2	6.0	4.6	24
Blackrock	10F7	8600	3/2	48	13.4	19.9	16.3	19.7**	10
Blind Bull \div	10G2	8750	Late Report			22.0	N.R.	28.4**	8
Bryan Flat	10F14	6250	2/29	20	4.4	8.3	8.9	9.4	24
CCC Camp \div	10G7	7500	2/23	38	9.3	9.3	10.7	10.4	24
Cottonwood	10G5	7500	Late Report			19.0			3
Deadman Ranch	10G1	6534	Late Report			10.5	N.R.	10.2*	21
East Rim Divide \div	10F17	7950	2/29	23	4.7	10.4	8.9	10.5	20
Four Mile Meadows	10F6	7770	3/2	33	7.8	12.4	10.1	11.9**	10
Greys Boundary	10F18	5800	2/26	37	9.1	11.0	13.5	10.6	24
Gros Ventre \div	10F19	8750	3/8	49	14.0E	11.9	7.2	10.8**	12
Grover Park Divide	10G3	7500	2/29	39	10.5	9.3	13.0	10.0	24
Loomis Park \div	10F16	8500	2/23	38	9.1	16.0	13.4	15.9	19
Poison Meadows \div	10G6	8500	Late Report			22.3	28.6	25.6**	12
Salt River Summit \div	10G8	7900	2/23	41	10.1	11.6	16.1	13.9**	12
Snow King Mtn. #2	10F12	7200	3/1	30	6.4	8.9	9.1	9.3**	6
Snow King Mtn. #3	10F20	7600	3/1	36	9.3	13.7			1
Teton Pass #2 \div	10F13	8500	2/29	67	20.6	29.4	30.1	31.3**	15
Togwotee Pass \div	10F9	9600	3/2	64	19.1	26.8	21.5	26.4**	10
Turpin Meadows	10F5	6930	3/2	24	5.6	10.1	10.1	10.4**	10
Yellowjacket	10F10	7675	3/1	21	4.0	6.7	4.7	5.3*	18

BEAR RIVER

Big Park \div	10G11	8700	Late Report			15.5	17.9	17.6**	9
CCC Camp \div	10G7	7500	2/23	38	9.3	9.3	10.7	10.4	24
Kelly R.S. \div	10G12	8200		NR		N.R.	17.4	18.4**	3
Monte Cristo R.S. ^u	11H12	8960	2/25	57	15.5	17.5	24.7	22.7**	10
Poison Meadows \div	10G6	8500	Late Report			22.3	28.6	25.6**	12
Salt River Summit \div	10G8	7900	2/23	41	10.1	11.6	16.1	13.9**	12
Trial Lake ^u \div	10J8	9800	2/26	61	16.8	17.8	23.7	23.4**	14

MISSOURI - CHEYENNE RIVER

Upper Spearfish ^s	3E1	6500	3/3	31	7.1	7.2	4.0	5.4*	16
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Averages are for the 15 year base period of 1943 to 1957.

* Average is for 15 years of data within and adjacent to the 1943-57 period.

** Average of all past data.

s South Dakota snow courses.

u Utah snow courses.

c Colorado snow courses.

\div Located close to divide.

E Aerial stadia marker. Water content estimated from snow depth.

e Partial estimate within the 1943-57 period.

WYOMING STREAM-FLOW FORECASTS MARCH, 1960

Basin and Tributary	<u>April - September 30</u>				15-Year Average 1943-57	
	<u>Seasonal Stream-Flow in Thousands of Acre Feet</u>		Percent 15-Year Average	<u>Measured Runoff</u> 1957		
	Forecast Runoff	15-Year Average				
MADISON RIVER						
West Yellowstone (at)	167	77%		220	216	
YELLOWSTONE RIVER						
Corwin (at)	1443	73%		1964	1980	
NORTH POPO AGIE						
Milford (near)	56	65%		123	86*	
LITTLE POPO AGIE						
Lander (near)	32	65%		62	49*	
WIND RIVER						
Dubois (at)	77	70%		146	110*	
SHOSHONE RIVER						
Buffalo Bill Dam(below) (1)	600	70%		1115	851	
CLARKS FORK						
Chance, Mont. (at)	490	79%		715	617	
LARAMIE RIVER						
Jelm (at) (2)	79	70%		168	113	
ENCAMPMENT RIVER						
Encampment (near)	97	62%		214	156	
NORTH PLATTE RIVER						
Northgate (at)	145	57%		537	255	
Saratoga (at)	390	59%		1168	661	
GREEN RIVER						
Warren Bridge (at)	225	65%		394	348	
MEDICINE BOW RIVER						
Hanna (near)	63	64%		146	99	
SWEETWATER RIVER						
	55	65%		94	84	

WYOMING STREAM-FLOW FORECASTS MARCH, 1960

Basin and Tributary	<u>April - September 30</u>			
	<u>Seasonal Stream-Flow in Thousands of Acre Feet</u>			
	Forecast Runoff	Percent 15-Year Average	<u>Measured Runoff</u> 1957	15-Year Average 1943-57
NORTH PINEY CREEK Mason (near)	27	65%	47	41
NEW FORK CREEK Boulder (near)	170	65%	268	260
GREEN RIVER Fontenelle (at) Linwood (at)	645 870	65% 67%	1177 1596	995 1302
SNAKE RIVER Moran (at) (3)	555	60%	936	928
PACIFIC CREEK Moran (near)	130	70%	188	185*
BUFFALO FORK Moran (near)	270	80%	402	337*
GROS VENTRE Kelly (at)		Stream gage removed		
HOBACK Jackson (near)		Stream gage removed		
SALT RIVER State Line (at)	270	75%	411	360
BEAR RIVER Wyo-Utah State Line (near) Randolph (near) Harrer (at) Idaho	92 37 136	75% 32% 45%	101 44 189	123* 115** 299
SMITH FORK Border (near)	97	82%	112	119

All stream data taken from observed flow records with the following exceptions:

- (1) Observed flow corrected for storage in Buffalo Bill Reservoir and Heart Mountain Diversion.
- (2) Observed flow corrected for Colorado diversion above station.
- (3) Observed flow corrected for Jackson Lake Storage.

* Less than 15.

** Estimated 1943-57 average.

STATUS OF WYOMING AND SOUTH DAKOTA RESERVOIR STORAGE - MARCH 1, 1960

Basin and/or Stream	Reservoir	Usable Capacity 1000s AF	Usable Storage - 1000 Acre Feet			
			1960	1959	1958	15-Yr. Avg. 1943-1957
Snake River	Jackson	847.0	477.0	481.0	567.6	465.5
Snake River	Palisade	1202.0	499.3	895.0	652.1	
North Platte	Seminoe	981.8	267.7	701.2	601.2	408.8
North Platte	Pathfinder	1011.0	209.9	144.5	700.0	505.2
North Platte	Alcova**	190.5	28.3	-36.6	38.0	3.2
North Platte	Guernsey	39.8	12.4	33.1	29.1	36.8
North Platte	Sutherland	70.0	N.R.	40.9	49.0	
North Platte	Kingsley	1900.0	N.R.	1450.0	997.7	
North Platte	Minatare	60.8	23.9	31.4	33.5	21.1
North Platte	Glendo	786.3	375.3			
Kansas Basin	Bonny	39.9	39.9		41.2	
Kansas Basin	Swanson Lake	116.1	90.6	N.R.	116.4	
Kansas Basin	Enders	36.0	37.2	N.R.	35.5	
Kansas Basin	Harry Strunk	33.9	35.8	N.R.	32.6	
Kansas Basin	Harlan County	252.9	317.1	N.R.	266.1	
Kansas Basin	Cedar Bluff	176.8	175.7	N.R.	181.0	
Laramie River	Wheatland	95.0	26.2	30.0		23.0
Belle Fourche	Belle Fourche ^{sd}	185.2	34.3	39.3	66.0	106.8
Belle Fourche	Keyhole	190.3	0.0	0.0	1.9	10.9
Shoshone River	Buffalo Bill	380.3***	122.5	0.0	161.9	235.4
Wind River	Boysen	560.0	140.5	78.2	149.1	448.6
Wind River	Pilot Butte	31.6	15.9	9.7	15.9	13.3
Wind River	Bull Lake	152.0	37.8	49.0	66.5	63.2
Cheyenne River	Angostura	92.0	19.2	44.1	55.9	41.4
Cheyenne River	Deerfield	15.1	1.2	8.9	11.3	12.9
Grand River	Shadehill	84.0	69.7	71.2	79.4	76.4
Green River	Big Sandy	38.3		N.R.	34.3	

* Average is for less than 15 years of record in the 1943-57 period.

** Alcova, downstream from Seminoe and Pathfinder and containing 160,170 Acre Feet of active storage that is unavailable to the Kendrick Project.

*** Usable capacity 439,800 however, 59,500 Acre Feet are inactive except in emergency.

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
LITTLE SNAKE RIVER CONSERVATION DISTRICT

SWEETWATER & CARBON COUNTIES, WYOMING

March 1, 1960

TO: The Cooperator, Little Snake River SWCD

FROM: The Board of Supervisors

SUBJECT: 1960 Preliminary Water Supply Outlook

Snow Surveyors have again found a deficit in the watershed above Dixon, Wyoming according to David Oberwager, Work Unit Conservationist of the Soil Conservation Service. His report states that the snow pack at Old Battle contains 20.5 inches of water as compared to the average of 25.8. This is 79 per cent of normal. In addition to this winter wind has been above normal, reducing still further the anticipated snow melt runoff from the mountains.

If subsequent spring precipitation proves to be normal or near normal, the seasonal runoff will be 60 - 65 per cent of average. However, wind velocities, this month and next, will have a material effect on the final May 1 forecast.

Your Board of Supervisors will issue this report April 1 and May 1 in order to provide you with current information on the status of the ensuing seasonal water supply.

Chairman

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
S & E SOIL CONSERVATION DISTRICT
CARBON COUNTY, WYOMING

" THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

**SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
S & E SOIL CONSERVATION DISTRICT
CARBON COUNTY, WYOMING**

SNOW

BASE MAP FROM U.S.G.S.

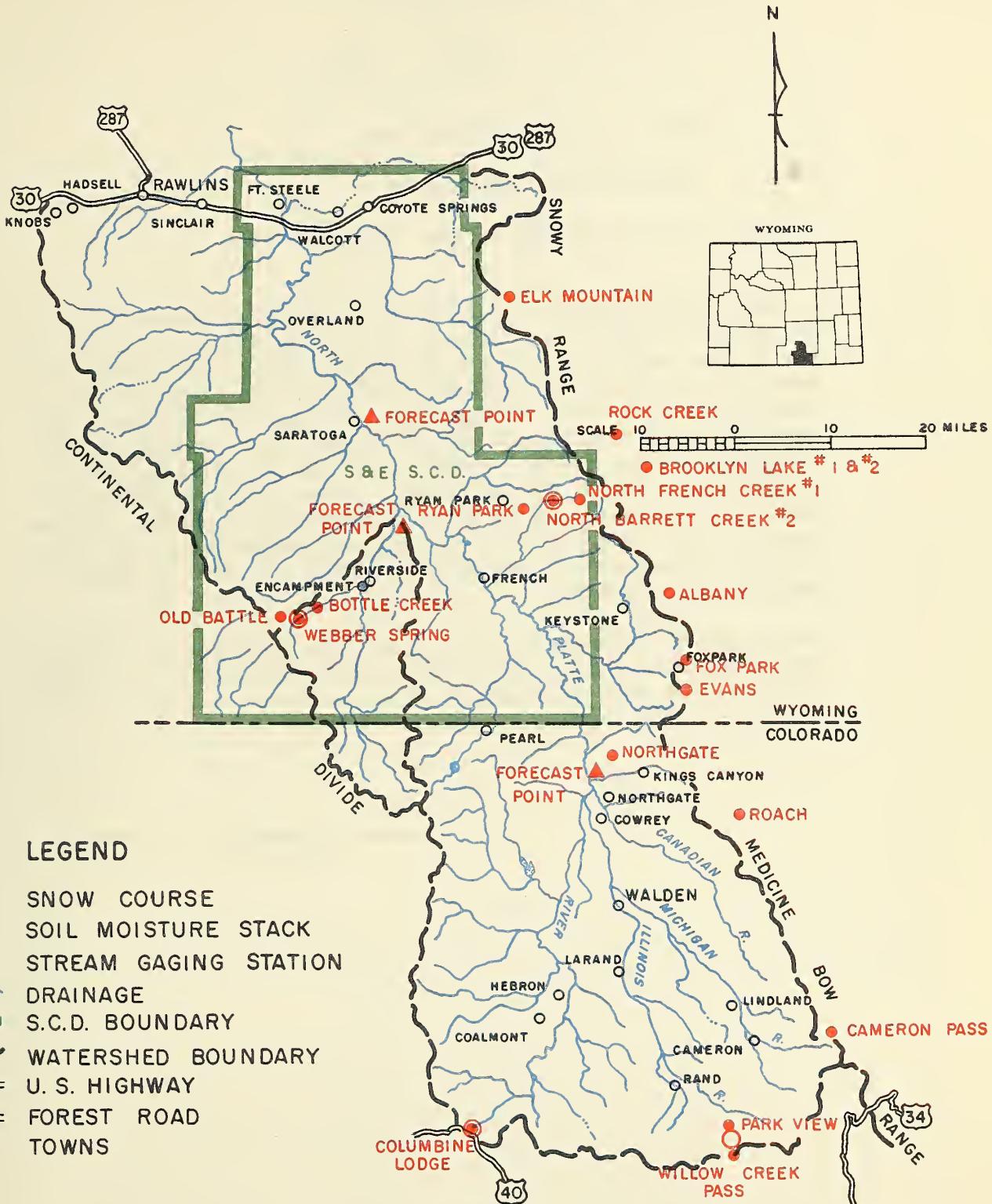
NO.	NAME	ELEVATION	CURRENT INFORMATION			PAST RECORD		YEARS OF RECORD
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	LAST YEAR	
6H15	Elk Mountain	10000	2/29	22	4.5E	NR		
6H14	Rock Creek	9800	2/29	58	16.5	NR		
6H1	Brooklyn Lake	10200	2/29	48	14.5	20.3	19.5	23
6H4	North French Creek	10200	2/29	68	18.5E	NR	23.0	21
6H5	North Barrett Creek	9400	2/29	42	11.0E	NR	14.6	23
6H6	Ryan Park	8400	2/29	26	5.5E	NR	8.7	22
6H8	Bottle Creek	8200	3/2	31	7.6	11.3	12.2	22
6H10	Old Battle	9800	3/2	70	20.5E	20.2	25.8	23
6H9	Webber Spring	9000	3/2	39	10.1	12.5	15.5	22
6H11	Albany	9400	2/29	38	8.5E	13.4	12.6	11
6H12	Fox Park	9200	2/26	22	4.5	5.6	6.0	23
6H16	Evans	9000	2/25	25	5.7	NR		
6J7	Northgate ^c	8500	2/25	21	4.5	5.2	6.2	10
6J12	Roach ^c	9800	2/29	58	14.8E	16.0	15.7	19
5J1	Cameron Pass ^c	10300	2/29	60	18.0	19.8	18.0	23
6J3	Columbine ^c	9300	2/25	60	16.4	22.2	19.6	24
6J2	Park View ^c	9200	2/24	34	7.5	6.6	7.7	24
6H5	Willow Creek Pass ^c	9500	2/24	42	10.0	10.1	13.6	22

SOIL MOISTURE

NO.	NAME	ELEVATION	DATE OF SURVEY	PERCENTAGE OF SOIL MOISTURE			YEARS OF RECORD
				CURRENT	LAST YEAR	NORMAL	

"WATER IS THE WEST'S GREATEST RESOURCE"

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
S & E SOIL CONSERVATION DISTRICT
CARBON COUNTY, WYOMING



"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
S & E SOIL CONSERVATION DISTRICT
CARBON COUNTY, WYOMING

March 1, 1960

TO: The Cooperator, S & E SWCD
FROM: The Board of Supervisors
SUBJECT: 1960 Preliminary Water Supply Outlook

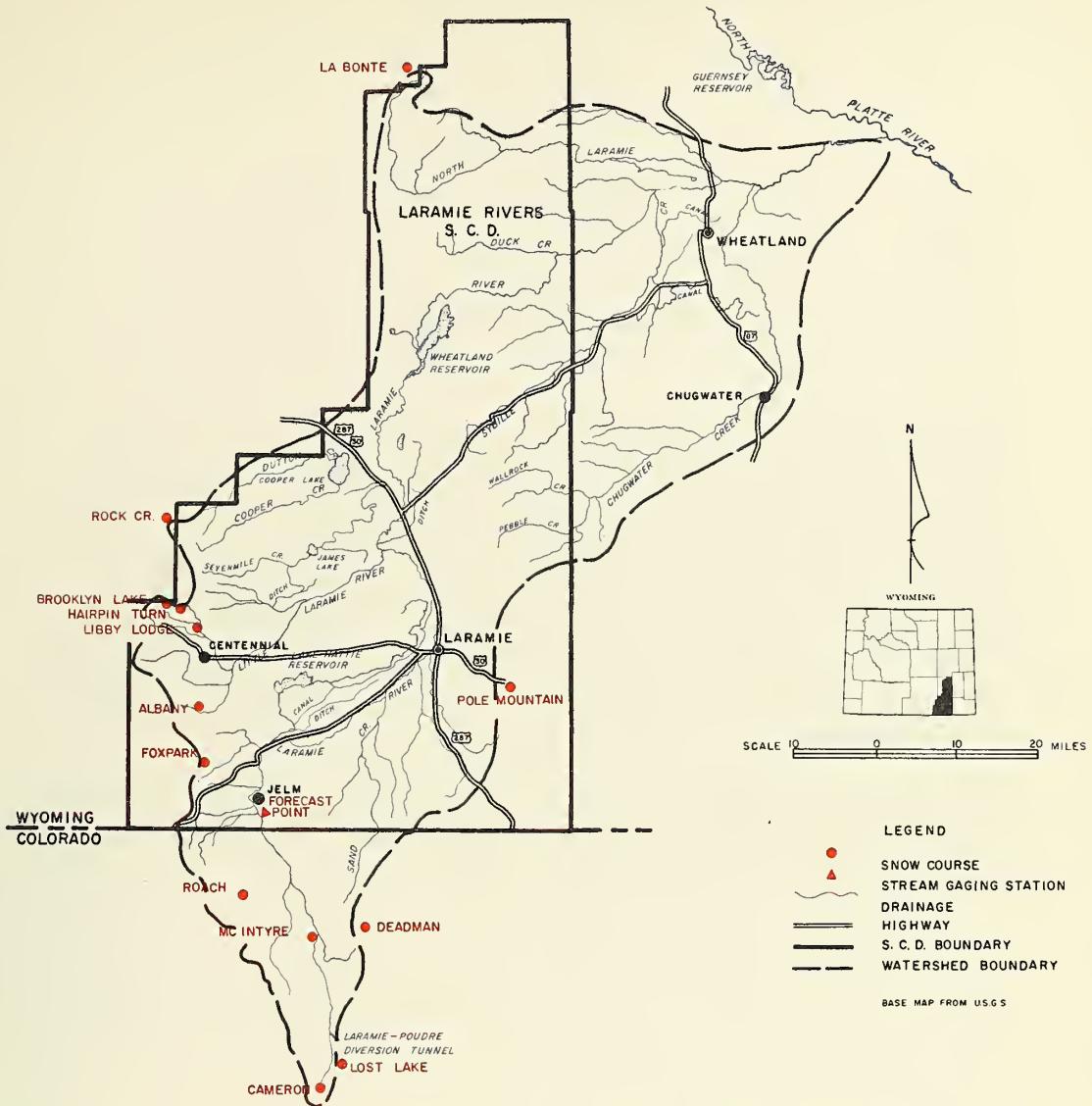
A report from Lauriston C. McPherran, Work Unit Conservationist of the Soil Conservation Service, states that heavy storms along the eastern edge of the North Platte watershed in Colorado have materially improved the potential water supply at Northgate and Saratoga. The April 1 to September 30 runoff at Northgate is expected to be 145,000 and 390,000 at Saratoga, or 57% and 59% of normal, respectively. Encampment River is anticipated at 97,000 acre feet, or 62% of normal. Snow melt runoff from the Snowies is estimated to be 60 to 65 per cent of normal. Subsequent precipitation must be considerably above normal and March and April winds considerably below normal in order to greatly improve the situation.

Your Board of Supervisors will issue this report April 1 and May 1 in order to provide you with current information on the status of the ensuing seasonal water supply.

Chairman

SNOW SURVEY & WATER SUPPLY FORECAST

FOR

LARAMIE RIVERS SOIL CONSERVATION DISTRICT
ALBANY COUNTY, WYOMING

SNOW

NO.	NAME	ELEVATION	CURRENT INFORMATION			PAST RECORD		PAST YEARS OF RECORD
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	LAST YEAR	
5G2	LaBonte	8450	2/26	17	3.0	4.4	5.4	11
6H14	Rock Creek	9800	2/29	58	16.5	NR		
6H1	Brooklyn Lake	10200	2/29	48	14.5	20.3	19.5	23
6H2	Hairpin Turn	9500	2/29	24	5.7	10.8	10.2	22
6H3	Libby Lodge	8700	2/29	22	4.6	10.0	9.2	22
5H1	Pole Mountain	8700	3/1	14	2.5	3.6	4.4	24
6H11	Albany	9400	2/29	38	8.5E	13.4	12.6	11
6H12	Fox Park	9200	2/26	22	4.5	5.6	6.0	23
6J12	Roach ^c	9800	2/29	58	14.8E	16.0	15.7	19
5J6	Deadman Hill ^c	10300	2/29	54	14.0E	14.0	12.2	23
5J15	McIntyre ^c	9100			NR			
5J23	Lost Lake ^c	9300	2/28	35	8.1	14.2	9.8	8
5J1	Cameron Pass ^c	10300	2/29	60	18.0E	19.8	18.0	23

**SNOW SURVEY & WATER SUPPLY FORECAST
FOR
LARAMIE RIVERS SOIL CONSERVATION DISTRICT
ALBANY COUNTY, WYOMING**

March 1, 1960

TO: The Cooperator, Laramie Rivers SWCD
FROM: The Board of Supervisors
SUBJECT: 1960 Preliminary Water Supply Outlook

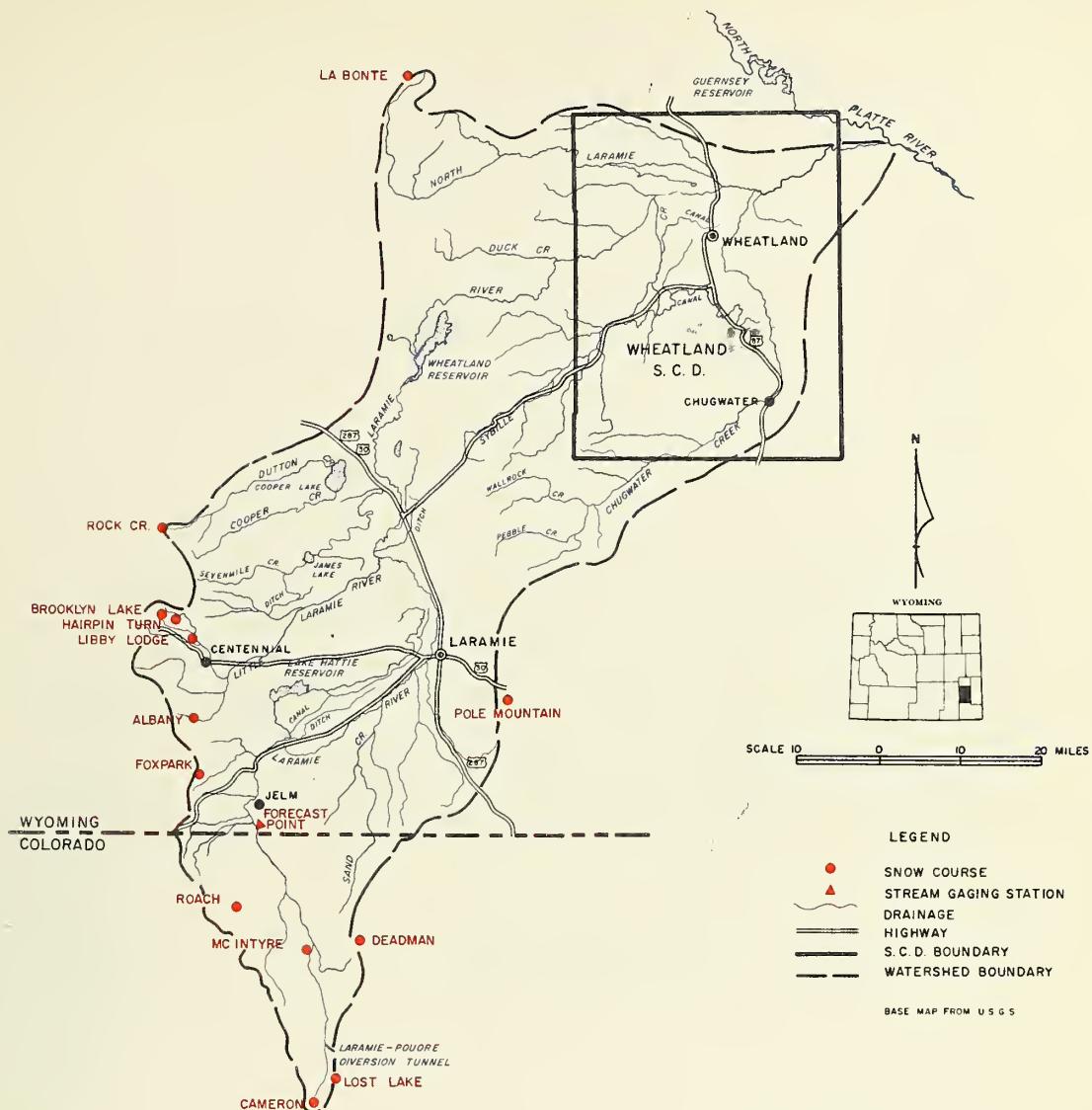
Heavy storms in the Upper Laramie Basin have improved the potential water supply according to Lyman E. Ellsbury, Work Unit Conservationist of the Soil Conservation Service. His report states that if subsequent precipitation proves to be normal or close to normal, the April 1 to September 30 snow melt runoff at Jelm will be about 70% of normal or 74,000 acre feet. Coupled with the Reservoir storage of 26,200 acre feet, this is not an adequate seasonal supply. Continuing heavy storms during March and April will be necessary to provide adequate irrigation supplies.

Your Board of Supervisors will issue this report April 1 and May 1 in order to provide you with current information on the status of the ensuing seasonal supply.

Chairman

SNOW SURVEY & WATER SUPPLY FORECAST

WHEATLAND SOIL CONSERVATION DISTRICT, PLATTE CO. WYOMING
AND
WHEATLAND IRRIGATION DISTRICT



SNOW

SNOW			CURRENT INFORMATION			PAST RECORD		PAST YEARS OF RECORD	
SNOW COURSE		NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	LAST YEAR	NORMAL
NO.									
5G2	LaBonte		8450	2/26	17	3.0	4.4	5.4	11
6H14	Rock Creek		9800	2/29	58	16.5	NR		
6H1	Brooklyn Lake		10200	2/29	48	14.5	20.3	19.5	23
6H2	Hairpin Turn		9500	2/29	24	5.7	10.8	10.2	22
6H3	Libby Lodge		8700	2/29	22	4.6	10.0	9.2	22
6H11	Albany		9400	2/29	38	8.5E	13.4	12.6	11
5H1	Pole Mountain		8700	3/1	14	2.5	3.6	4.4	24
6H12	Fox Park		9200	2/26	22	4.5	5.6	6.0	23
6J12	Roach ^c		9800	2/29	58	14.8E	16.0	15.7	19
5J15	McIntyre ^c		9100		NR				
5J6	Deadman Hill ^c		10300	2/29	54	14.0	14.0	12.2	23
5J23	Lost Lake ^c		9300	2/28	35	8.1	14.2	9.8	8
5J1	Cameron Pass ^c		10300	2/29	60	18.0	19.8	18.0	23

**SNOW SURVEY & WATER SUPPLY FORECAST
FOR
WHEATLAND SOIL CONSERVATION DISTRICT, PLATTE CO. WYOMING
AND
WHEATLAND IRRIGATION DISTRICT**

March 1, 1960

TO: The Cooperator, Wheatland Soil Conservation District
and the Water User, Wheatland Irrigation District

FROM: The Boards of Supervisors

SUBJECT: 1960 Preliminary Water Supply Outlook

Heavy storms in the upper Laramie Basin have improved the potential water supply according to "Bud" Svalberg, Work Unit Conservationist, of the Soil Conservation Service. His report states that if subsequent precipitation proves to be normal, or close to normal, the April 1 to September 30 snow melt runoff at Jelm will be about 70% of normal, or 74,000 acre feet. Coupled with the Reservoir storage of 26,200 acre feet, this is not an adequate seasonal supply. Continuing heavy storms during March and April will be necessary to provide adequate irrigation supplies.

Your Boards of Supervisors will issue this report April 1 and May 1 in order to provide you with current information on the status of the ensuing seasonal supply.

Chairman

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
MEDICINE BOW SOIL CONSERVATION DISTRICT
CARBON COUNTY, WYOMING



LEGEND

- SNOW COURSE
- SOIL MOISTURE STACK
- ▲ STREAM GAGING STATION
- ~~~~ DRAINAGE
- S.C.D. BOUNDARY
- WATERSHED BOUNDARY
- 30 U. S. HIGHWAY
- ===== FOREST ROAD
- TOWNS

NO. FRENCH CR.*1 NO. BARRETT CR.*2 RYAN PARK #2 ● BROOKLYN LAKE #1 HAIRPIN TURN #2 LIBBY LODGE #2

SCALE 10 0 10 20 MILES

BASE MAP FROM U.S.G.S.

SNOW			CURRENT INFORMATION			PAST RECORD		
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)		YEARS OF RECORD
						LAST YEAR	NORMAL	
5G2	LaBonte	8450	2/26	17	3.0	4.4	5.4	11
6H15	Elk Mountain	10000	2/29	22	4.5E	NR		
6H14	Rock Creek	9800	2/29	58	16.5	NR		
6H4	North French Creek	10200	2/29	68	18.5E	NR	23.0	21
6H5	North Barrett Creek	9400	2/29	42	11.0E	NR	14.6	23
6H1	Brooklyn Lake	10200	2/29	48	14.5	20.3	19.5	23
6H3	Libby Lodge	8700	2/29	22	4.6	10.0	9.2	22
6H6	Ryan Park	8400	2/29	26	5.5E	NR	8.7	22
6H2	Hairpin Turn	9500	2/29	24	5.7	10.8	10.2	22

"WATER IS THE WEST'S GREATEST RESOURCE"

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
MEDICINE BOW SOIL CONSERVATION DISTRICT
CARBON COUNTY, WYOMING

March 1, 1960

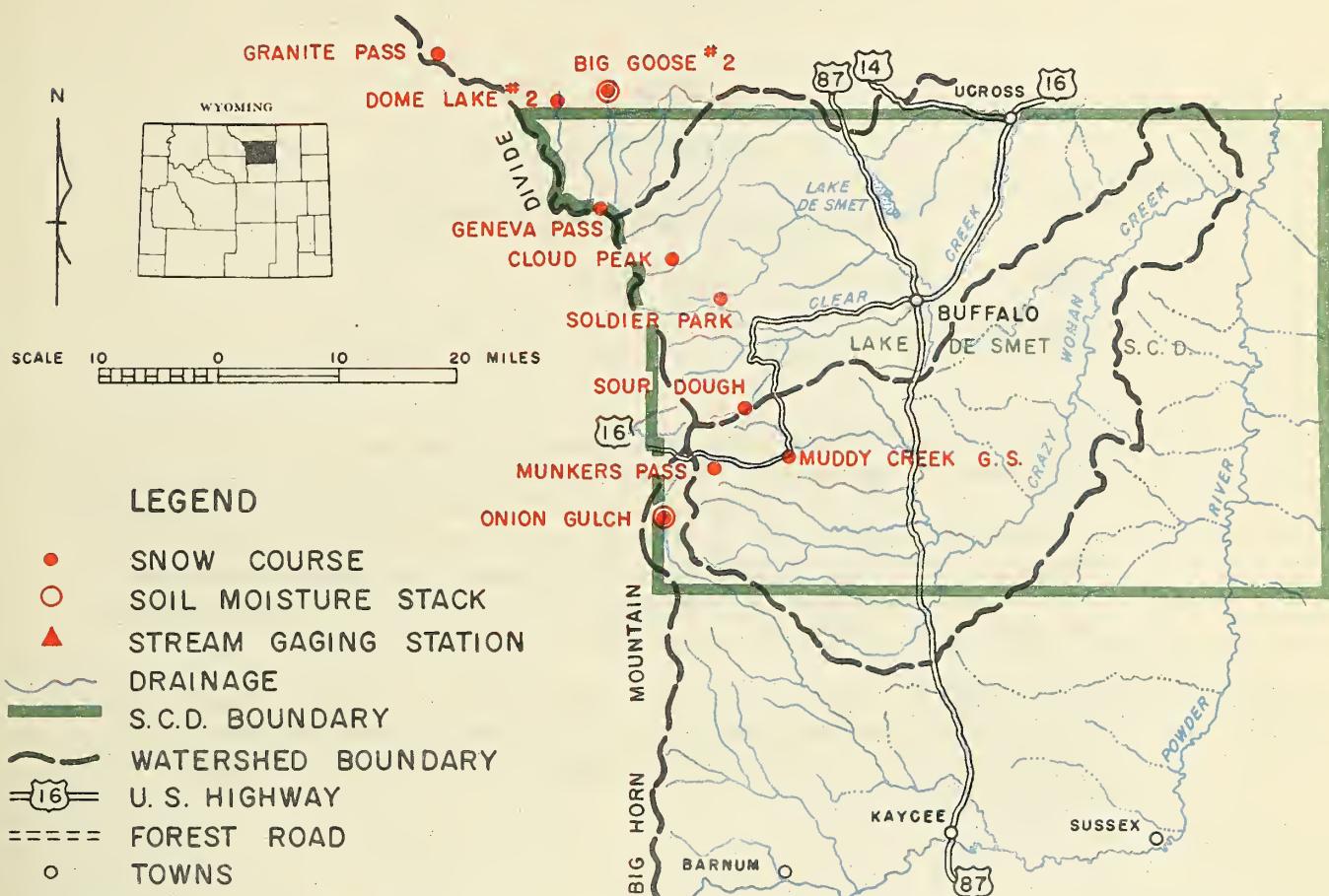
TO: The Cooperator, Medicine Bow SWCD
FROM: The Board of Supervisors
SUBJECT: 1960 Preliminary Water Supply Outlook

The snow pack on the Medicine Bow district watershed is 70 per cent of normal on the Snowy Range Watershed and 56 per cent of normal on the Laramie Range at La Bonte, according to a report received from "Jiggs" James, Work Unit Conservationist of the Soil Conservation Service. Anticipated seasonal flow in the Medicine Bow River will be 64 per cent of normal providing subsequent spring precipitation proves to be normal or near normal.

Your Board of Supervisors will issue this report April 1 and May 1 in order to provide you with current information on the status of the ensuing seasonal water supply.

Chairman

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
LAKE DE SMET SOIL CONSERVATION DISTRICT
JOHNSON COUNTY, WYOMING



SNOW **BASE MAP FROM U.S.G.S.**

SNOW COURSE			CURRENT INFORMATION			PAST RECORD			
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	LAST YEAR	NORMAL	YEARS OF RECORD
7E17	Granite Pass	8950	3/2	48	13.2	15.3	13.0	13.0	4
7E32	Big Goose #2	7700	2/25	30	6.6	7.2	5.9	5.9	4
7E34	Dome Lake #2	8800	2/28	35	7.5E	8.6	7.7	7.7	4
7E36	Clouds Peak	10000	2/28	34	7.5E				
7E5	Soldier Park	8700	2/26	20	4.3	5.5	4.0	4.0	8
7E6	Sour Dough	8500	2/26	22	4.1	6.3			3
7E28	Muddy Creek G.S.	7500	2/29	15	3.4	5.0			3
7E8	Munkres Pass	9700	2/29	32	6.8	7.2			4
7E27	Onion Gulch	8100	3/2	29	5.2	9.5	7.4		3

SOIL MOISTURE

SOIL MOISTURE STACK			DATE OF SURVEY	PERCENTAGE OF SOIL MOISTURE			YEARS OF RECORD
NO.	NAME	ELEVATION		CURRENT	LAST YEAR	NORMAL	

"WATER IS THE WEST'S GREATEST RESOURCE"

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
LAKE DE SMET SOIL CONSERVATION DISTRICT
JOHNSON COUNTY, WYOMING

March 1, 1960

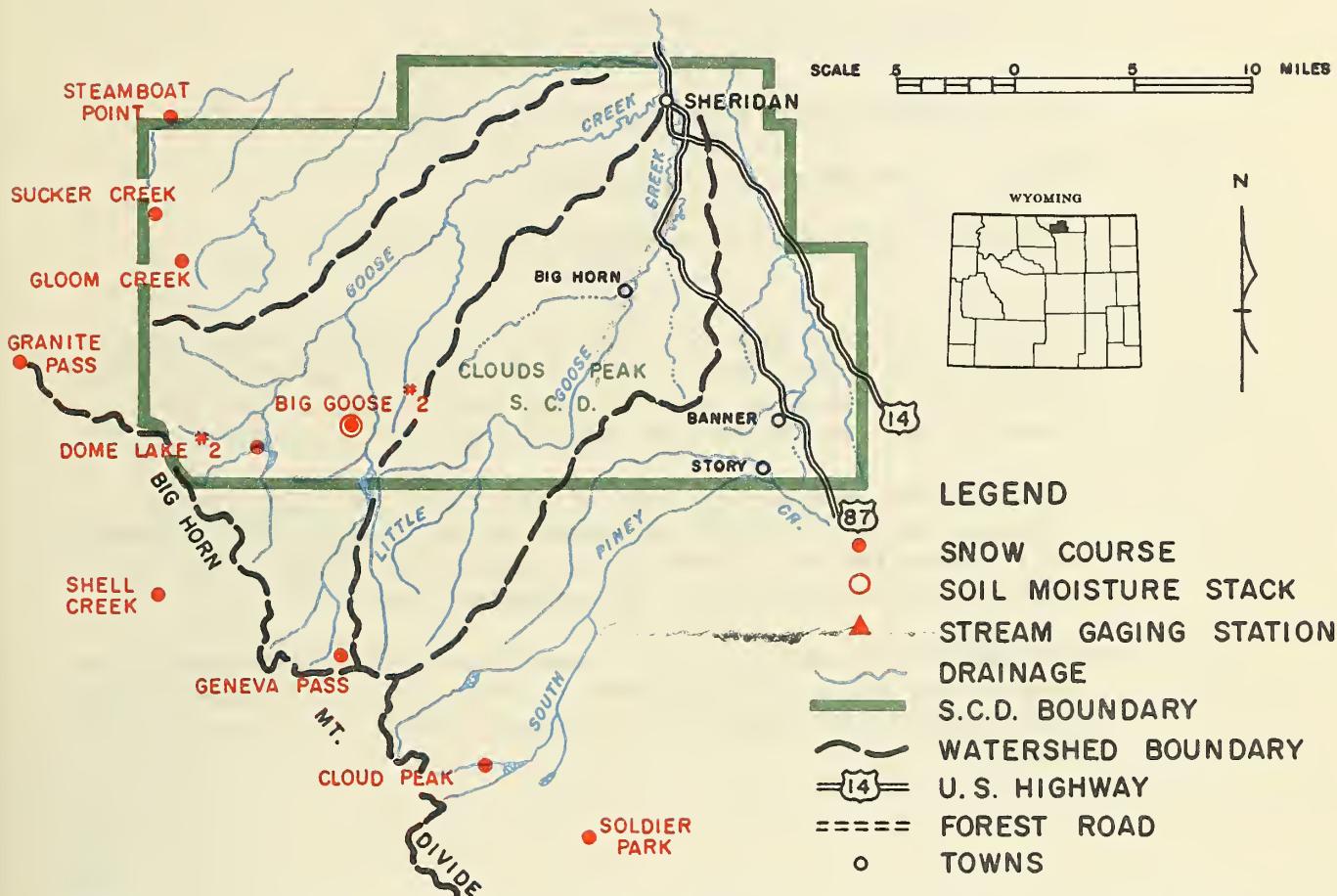
TO: The Cooperator, Lake DeSmet SWCD
FROM: The Board of Supervisors
SUBJECT: 1960 Preliminary Water Supply Outlook

Snow Surveyors have found the existing snow pack in this district watershed to be exactly normal or 100% of the past 4 year average and 88 per cent of the March 1, 1959 data, according to Joseph L. Trierweiler, Work Unit Conservationist of the Soil Conservation Service. His report states that at this time the anticipated runoff will be about 90 per cent of normal providing subsequent precipitation proves to be close to average.

Your Board of Supervisors will issue this individual report once a month for the next two months in order to provide each of you with the current information necessary for farm and ranch operation.

Chairman

**SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
CLOUDS PEAK SOIL CONSERVATION DISTRICT
SHERIDAN COUNTY, WYOMING**



SNOW

BASE MAP FROM U.S.G.S.

SNOW COURSE			CURRENT INFORMATION			PAST RECORD		
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)		YEARS OF RECORD
						LAST YEAR	NORMAL	
7E10	Steamboat Point	7500	3/2	31	7.6	9.0	5.7	4
7E12	Sucker Creek	9000	2/28	45	12.5E	12.8	9.3	4
7E14	Gloom Creek	9300	2/28	48	13.0E	13.1	10.0	4
7E17	Granite Pass	8950	3/2	48	13.2	15.3	13.0	4
7E32	Big Goose #2	7700	2/25	30	6.6	7.2	5.9	4
7E34	Dome Lake #2	8800	2/28	35	7.5E	8.6	7.7	4
7E23	Shell Creek	9600	2/28	45	12.5E	13.1		3
7E36	Geneva Pass			NR				
	Clouds Peak	10000	2/28	34	7.5E			
7E5	Soldier Park	8700	2/26	20	4.3	5.5	4.0	8

SOIL MOISTURE

SOIL MOISTURE STACK			DATE OF SURVEY	PERCENTAGE OF SOIL MOISTURE			YEARS OF RECORD
NO.	NAME	ELEVATION		CURRENT	LAST YEAR	NORMAL	

" WATER IS THE WEST'S GREATEST RESOURCE "

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
CLOUDS PEAK SOIL CONSERVATION DISTRICT
SHERIDAN COUNTY, WYOMING

March 1, 1960

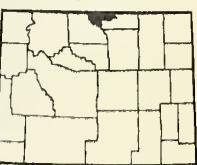
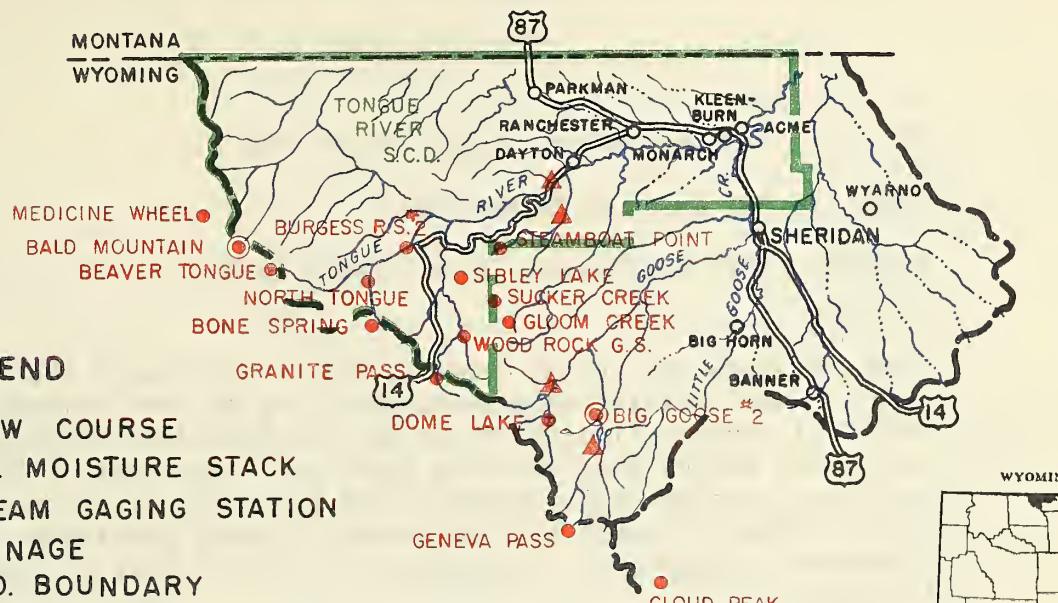
TO: The Cooperator, Clouds Peak SWCD
FROM: The Board of Supervisors
SUBJECT: 1960 Preliminary Water Supply Outlook

The Big Horn snow pack is standing at 16 per cent above normal according to "Tiny" Smith, Work Unit Conservationist of the Soil Conservation Service. However, his report states that this is about 10 per cent below last year's figures for March 1.

Although the snow survey data is above the past four year average, exceptionally heavy winds during November and December, will reduce the anticipated water supply to 100 per cent, or close to the average April to September runoff.

The Board of Supervisors will issue this individual report once a month for the next two months in order to provide each of you with the current information necessary for farm and ranch operation.

**SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
TONGUE RIVER SOIL CONSERVATION DISTRICT
SHERIDAN COUNTY, WYOMING**



LEGEND

- SNOW COURSE
- SOIL MOISTURE STACK
- ▲ STREAM GAGING STATION
- ~~~~ DRAINAGE
- S.C.D. BOUNDARY
- WATERSHED BOUNDARY
- 14 U. S. HIGHWAY
- ===== FOREST ROAD
- TOWNS
- BASE MAP FROM U.S.G.S.

SCALE 10 0 10 20 MILES

SNOW

SNOW COURSE			CURRENT INFORMATION			PAST RECORD		
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)		YEARS OF RECORD
						LAST YEAR	NORMAL	
7E30	Medicine Wheel	9000	2/29	51	15.2	19.0	13.1	4
7E21	Bald Mountain	9600	2/29	62	17.6	20.8	15.8	4
7E20	Beaver Tongue	9200	2/29	58	16.2	19.8	15.0	4
7E33	Burgess R.S. #2	7900	3/1	31	7.6	8.7	6.0	4
7E10	Steamboat Point	7500	3/2	31	7.6	9.0	5.7	4
7E11	Sibley Lake	8000	3/2	39	9.2	11.7	8.0	4
7E12	Sucker Creek	9000	2/28	45	12.5E	12.8	9.3	4
7E15	North Tongue	8800	3/1	39	9.7			
7E18	Bone Spring	9200	2/28	49	13.0E	16.4	13.0	4
7E14	Gloom Creek	9300	2/28	48	13.0E	13.1	10.0	4
7E13	Wood Rock G.S.	8500	3/2	38	9.3	10.1	8.3	4
7E17	Granite Pass	8950	3/2	48	13.2	15.3	13.0	4
7E34	Dome Lake	8800	2/28	35	7.5E	8.6	7.7	4
7E32	Big Goose #2	7700	2/25	30	6.6	7.2	5.9	4
7E36	Geneva Pass							
	Clouds Peak	10000	2/28	34	7.5E			

SOIL MOISTURE

SOIL MOISTURE STACK			DATE OF SURVEY	PERCENTAGE OF SOIL MOISTURE			YEARS OF RECORD
NO.	NAME	ELEVATION		CURRENT	LAST YEAR	NORMAL	

"WATER IS THE WEST'S GREATEST RESOURCE"

5,L-15,721

SNOW SURVEYS & WATER SUPPLY FORECASTS

FOR

TONGUE RIVER SOIL CONSERVATION DISTRICT

SHERIDAN COUNTY, WYOMING

March 1, 1960

TO: The Cooperator, Tongue River SWCD

FROM: The Board of Supervisors

SUBJECT: 1960 Preliminary Water Supply Outlook

Snow surveyors have found above normal conditions in the Tongue River district watershed, according to Glen Stickley, Work Unit Conservationist of the Soil Conservation Service. His report states that the snow pack is 114 per cent of the past four year March 1 average and 86 per cent of last years data. Snowmelt runoff will be close to normal providing subsequent spring precipitation proves to be normal or close to normal.

Your Board of Supervisors will issue this report April 1 and May 1 in order to provide you with current information on the status of the ensuing seasonal water supply.

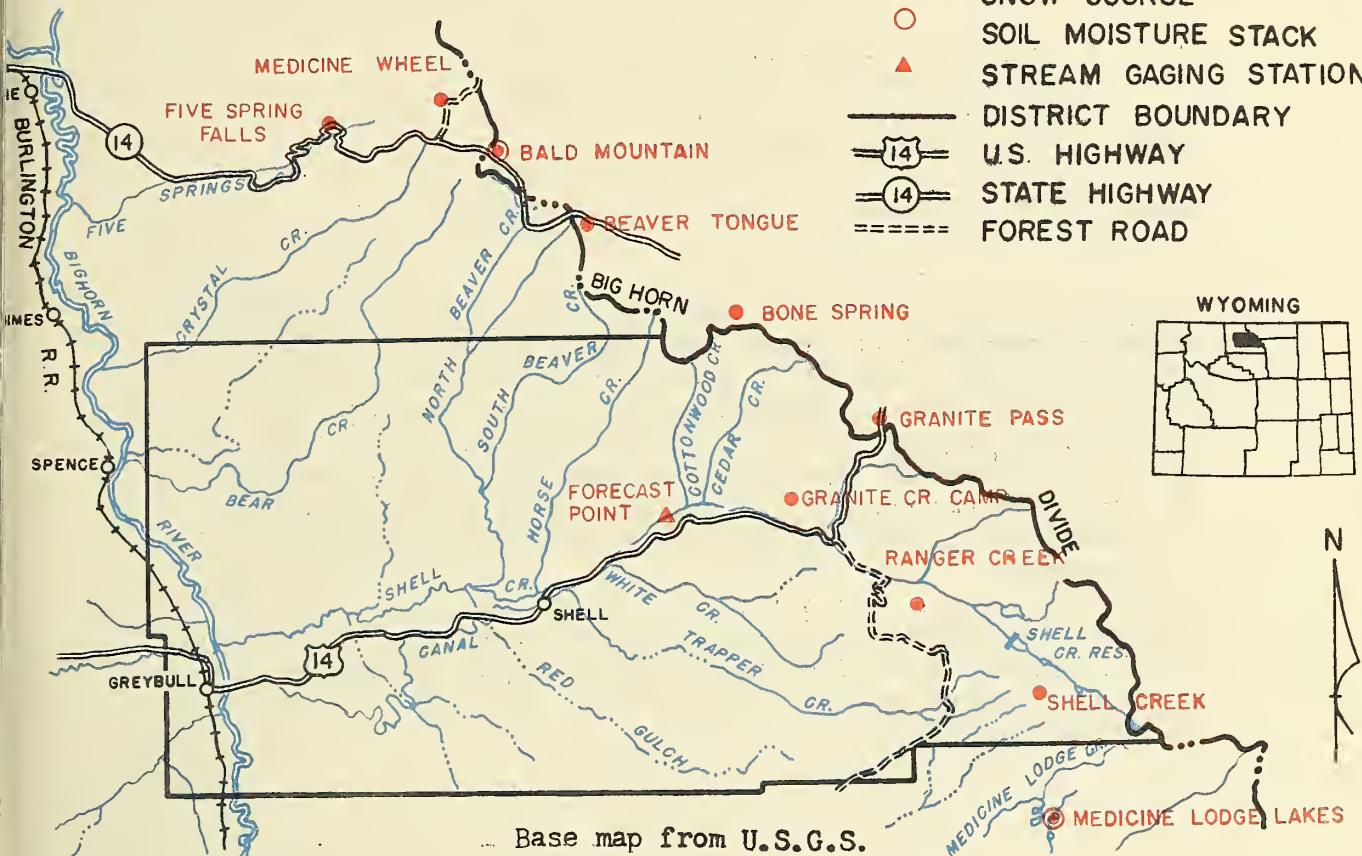
Chairman

**SNOW SURVEY & WATER SUPPLY FORECAST
FOR
SHELL VALLEY SOIL CONSERVATION DISTRICT
BIG HORN COUNTY, WYOMING**

5 0 5 10
SCALE IN MILES

LEGEND

- SNOW COURSE
- SOIL MOISTURE STACK
- ▲ STREAM GAGING STATION
- DISTRICT BOUNDARY
- (14) U.S. HIGHWAY
- (14) STATE HIGHWAY
- ===== FOREST ROAD



SNOW

NO.	NAME	ELEVATION	CURRENT INFORMATION			PAST RECORD		YEARS OF RECORD
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	LAST YEAR	NORMAL	
7E30	Medicine Wheel	9000	2/29	51	15.2	19.0	13.1	4
7E31	Five Springs Falls	7500	3/1	25	5.4	10.8	5.8	4
7E21	Bald Mountain	9600	2/29	62	17.6	20.8	15.8	4
7E20	Beaver Tongue	9200	2/29	49	13.0E	16.4	13.0	4
7E18	Bone Spring	9200	2/28	49	13.0E	16.4	13.0	4
7E17	Granite Pass	8950	3/2	48	13.2	15.3	13.0	4
7E22	Granite Creek Camp	7800	NR					
7E4	Ranger Creek	8800	NR					
7E23	Shell Creek	9600	2/28	45	12.5E	13.1		3
7E24	Medicine Lodge Lakes	9500	2/25	37	8.0	10.9		3

SOIL MOISTURE

NO.	NAME	ELEVATION	DATE OF SURVEY	PERCENTAGE OF SOIL MOISTURE			YEARS OF RECORD
				CURRENT	LAST YEAR	NORMAL	

SNOW SURVEY & WATER SUPPLY FORECAST

FOR

SHELL VALLEY SOIL CONSERVATION DISTRICT

BIG HORN COUNTY, WYOMING

March 1, 1960

TO: The Cooperator, Shell Valley SWCD

FROM: The Board of Supervisors

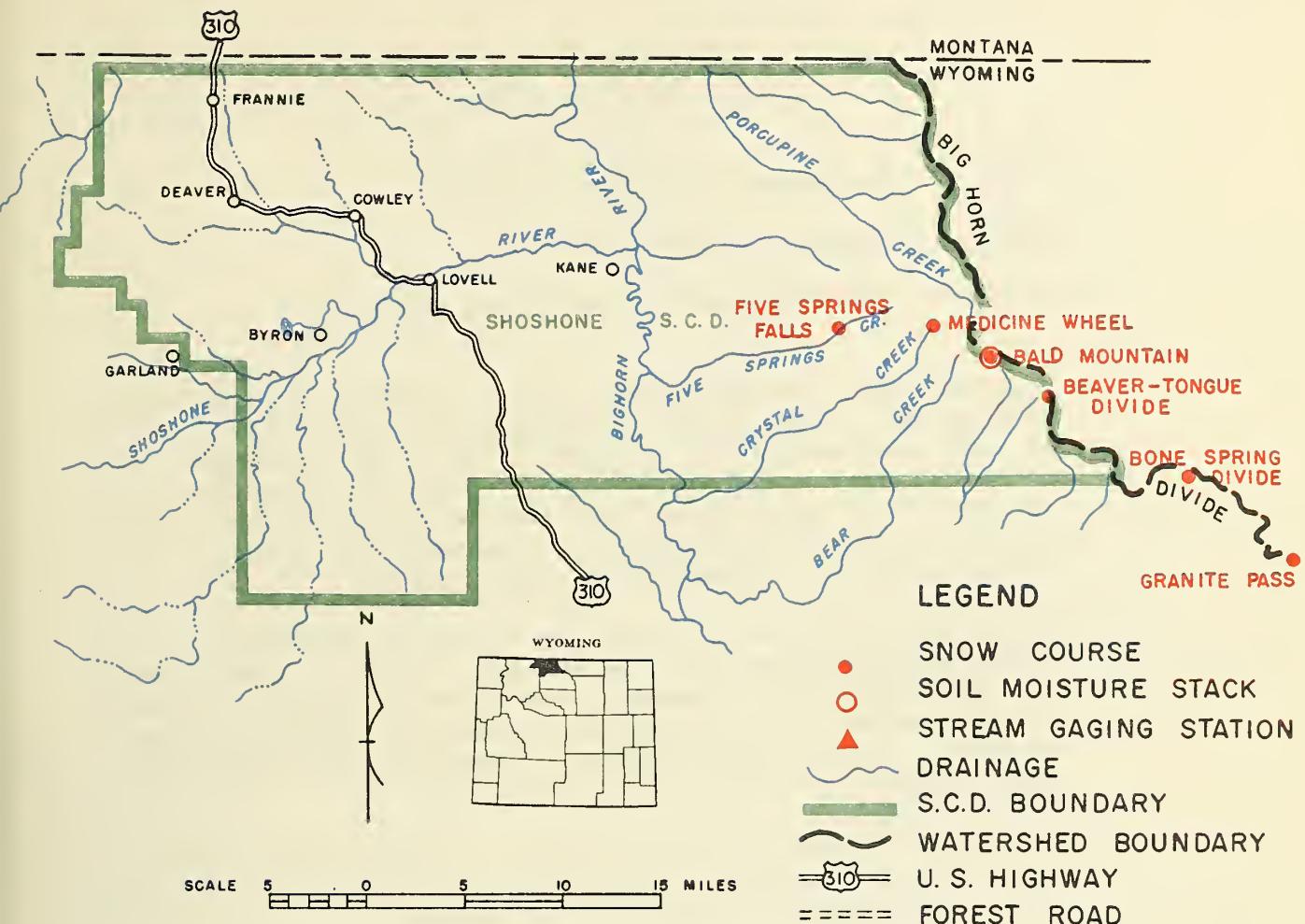
SUBJECT: 1960 Preliminary Water Supply Outlook

The snow pack on Shell Creek and its tributaries is close to normal, according to a report received from Dominic J. Feeley, Work Unit Conservationist of the Soil Conservation Service. High elevation snow is above normal, while at lower levels the snow surveyors have found less than average water. The total represents about 22% less than last years figures for March 1. If the subsequent precipitation proves to be normal, or close to normal, water supplies this summer will be a little less than average.

Your Board of Supervisors will issue this report to you April 1 and May 1 in order to provide you with current information on the status of the ensuing seasonal runoff.

Chairman

**SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
SHOSHONE SOIL CONSERVATION DISTRICT
BIG HORN & PARK COUNTIES, WYOMING**



SNOW

BASE MAP FROM U.S.G.S.

SNOW COURSE			CURRENT INFORMATION			PAST RECORD		
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	LAST YEAR	NORMAL	YEARS OF RECORD
7E31	Five Springs Falls	7500	3/1	25	5.4	10.8	5.8	4
7E30	Medicine Wheel	9000	2/29	51	15.2	19.0	13.1	4
7E21	Bald Mountain	9600	2/29	62	17.6	20.8	15.8	4
7E20	Beaver Tongue	9200	2/29	58	16.2	19.3	15.0	4
7E18	Bone Spring Divide	9200	2/28	49	13.0E	16.4	13.0	4
7E17	Granite Pass	8950	3/2	48	13.2	15.3	13.0	4

SOIL MOISTURE

SOIL MOISTURE STACK			DATE OF SURVEY	PERCENTAGE OF SOIL MOISTURE			YEARS OF RECORD
NO.	NAME	ELEVATION		CURRENT	LAST YEAR	NORMAL	

"WATER IS THE WEST'S GREATEST RESOURCE"

**SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
SHOSHONE SOIL CONSERVATION DISTRICT
BIG HORN & PARK COUNTIES, WYOMING**

March 1, 1960

TO: The Cooperator, Shoshone SWCD
FROM: The Board of Supervisors
SUBJECT: 1960 Preliminary Water Supply Outlook

Snow Surveyors have found the existing Big Horn snow pack to be 107 per cent of the past 4 year average, but only 79 per cent of last years conditions on March 1, according to George M. Danielson, Work Unit Conservationist of the Soil Conservation Service. His report states that the snow melt runoff will be slightly below normal, provided subsequent storms along the divide prove to be average or close to average.

On the Shoshone river, the snow surveys indicate 75 per cent of normal water content at high elevations and 55 per cent of normal at lower elevations. Seasonal runoff into Buffalo Bill reservoir is anticipated at 70 per cent of average, or 600,000 acre feet of water. Current active reservoir contents are 122,500 acre feet of water, or 52 per cent of normal.

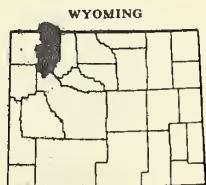
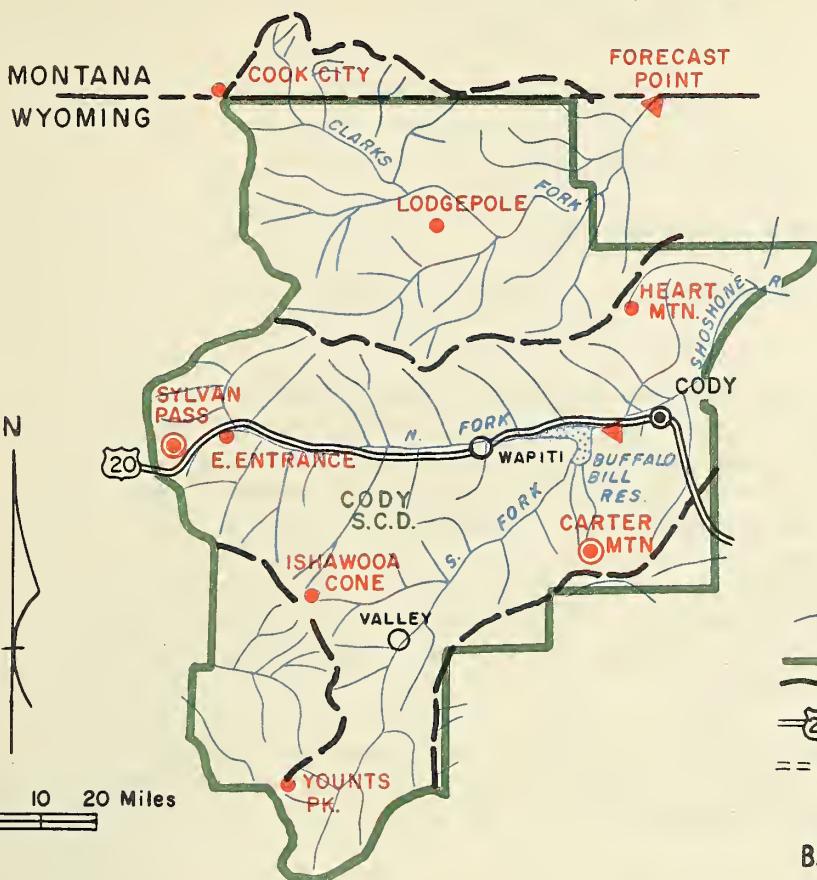
Your Board of Supervisors will issue this report April 1 and May 1 in order to provide you with current information on the status of the ensuing seasonal water supply.

Chairman

SNOW SURVEYS & WATER SUPPLY FORECASTS

FOR

CODY SOIL CONSERVATION DISTRICT PARK COUNTY, WYOMING



LEGEND

- SNOW COURSE
- SOIL MOISTURE STACK
- ▲ STREAM GAGING STATION
- DRAINAGE
- S.C.D. BOUNDARY
- WATERSHED BOUNDARY
- U.S. HIGHWAY
- ===== FOREST ROAD
- TOWNS

BASE MAP FROM U.S.G.S.

SNOW

NO.	NAME	ELEVATION	CURRENT INFORMATION			PAST RECORD		YEARS OF RECORD
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	LAST YEAR	
10D7	Cooke City ^m	7400	3/1	22	4.2	7.5	7.8	23
9E1	Lodgepole	8200	2/29	25	5.0	9.9	10.0	4
10E5	Heart Mountain							
10E6	Sylvan Pass	7100	3/1	32	7.6	14.1	13.1	16
9E4	East Entrance	7000	3/1	24	5.3	11.4	11.0	11
9E5	Carter Mountain	7800	2/24	21	4.2	3.4		3
9F18	Ishawooa Cone	9200	2/28	125				
10F9	Younts Peak	8500	2/28	80	26.0E			
	Togwotee Pass	9600	3/2	64	19.1	26/8	26.4	10

SOIL MOISTURE

NO.	NAME	ELEVATION	DATE OF SURVEY	PERCENTAGE OF SOIL MOISTURE			YEARS OF RECORD
				CURRENT	LAST YEAR	NORMAL	

SNOW SURVEYS & WATER SUPPLY FORECASTS

FOR

CODY SOIL CONSERVATION DISTRICT
PARK COUNTY, WYOMING

March 1, 1960

TO: The Cooperator, Cody SWCD
FROM: The Board of Supervisors
SUBJECT: 1960 Preliminary Water Supply Outlook

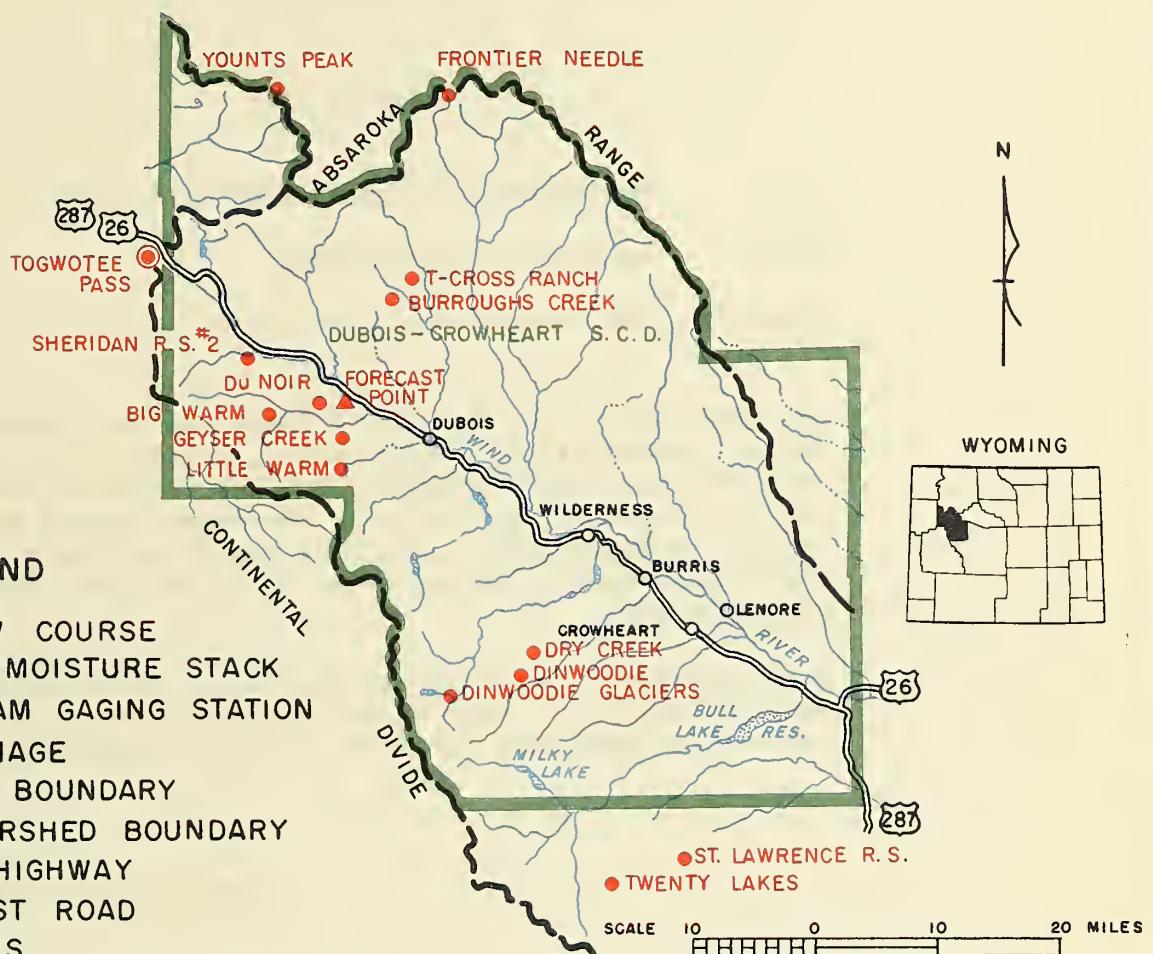
Snow surveys on the Shoshone watershed have found the snow pack ranging from 75 per cent of normal at high elevations to 55 per cent at lower elevations, according to James W. Rowles, Work Unit Conservationist of the Soil Conservation Service. His report states that if subsequent precipitation proves to be normal, or close to normal, the April 1 to September 30 snow melt runoff into Buffalo Bill Reservoir will be about 70% of normal. This is estimated to be 600,000 acre feet. Current Reservoir storage is 122,500 acre feet or 52 per cent of normal.

Conditions on the Clarks' Fork River are somewhat improved. The forecast of seasonal flow at Chance, Montana is estimated to be 490,000 acre feet or 79 per cent of normal.

Your Board of Supervisors will issue this report April 1 and May 1 in order to provide you with current information on the status of the ensuing seasonal water supply.

Chairman

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
DUBOIS - CROWHEART SOIL CONSERVATION DISTRICT
FREMONT COUNTY, WYOMING



BASE MAP FROM U.S.G.S.

SNOW

SNOW COURSE			CURRENT INFORMATION			PAST RECORD		
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)		YEARS OF RECORD
						LAST YEAR	NORMAL	
9F18	Younts Peak	8500	2/28	80	26.0E			
10F9	Frontier Needle							
9F9	Togwotee Pass	9600	3/2	64	19.1	26.8	26.4	10
9F3	T-Cross Ranch	8000	2/29	17	3.1	6.0	6.8	19
9F4	Burroughs Creek	8800	2/29	28	6.0	13.3	13.4	11
9F14	Sheridan R.S.	7500	2/29	20	3.7	5.8	6.1	5
9F6	DuNoir	8750	2/27	21	4.1	6.7	7.8	19
9F12	Big Warm	8800	2/27	26	5.0	8.1	7.2	5
9F7	Geyser	8500	2/28	20	4.0	6.0	7.0	11
9F8	Little Warm	9500	2/28	43	10.7	14.1	14.7	11
9F9	Dry Creek	9500	3/1	20	3.7	5.7	7.8	19
9F10	Dinwoodie	10000	3/1	34	8.0	9.7	10.8	11
9F17	Dinwoodie Glaciers	10500	Late	Report		9.7E		1

"WATER IS THE WEST'S GREATEST RESOURCE"

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
DUBOIS - CROWHEART SOIL CONSERVATION DISTRICT
FREMONT COUNTY, WYOMING

March 1, 1960

TO: The Cooperator, Dubois-Crowheart SWCD
FROM: The Board of Supervisors
SUBJECT: 1960 Preliminary Water Supply Outlook

The snow pack in the Wind River Range and the Absoroka Range is substantially below normal, according to a report received from Floyd Foresman, Work Unit Conservationist of the Soil Conservation Service. The report states that the April 1 to September 30 snow melt runoff will be close to 77,000 acre feet of water, which is 70 per cent of the average runoff.

This report will be mailed to you once a month for the next two months in order to provide you with current information necessary for farm and ranch operation.

Chairman

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
GREYBULL VALLEY SOIL CONSERVATION DISTRICT
BIG HORN COUNTY, WYOMING

March 1, 1960

TO: The Cooperator, Greybull Valley SWCD
FROM: The Board of Supervisors
SUBJECT: 1960 Preliminary Water Supply Outlook

Snow Surveys on the Greybull watershed are somewhat above normal, according to Dominic J. Feeley, Work Unit Conservationist of the Soil Conservation District. His report states, however that, with the exception of Kirwin, these are low elevation courses, which are not as reliable as high elevation data.

In order to improve the network in this area, a high elevation aerial was installed at Kirwin, last fall. The March 1 snow depth at this station was 51 inches with an estimated water content of 13.5 inches. This summer another aerial will be installed on the three-way divide of Frontier Creek, Needle Creek and the Greybull headwaters. It must be remembered that a few years of records are necessary before a correlation can be developed for forecasting snow melt stream flow.

It is believed that high elevation snow on this watershed is below normal, with a resultant outlook of less than normal water supplies.

Your Board of Supervisors will issue this report April 1 and May 1 in order to provide you with current information on the status of the ensuing seasonal water supply.

Chairman

SNOW SURVEYS & WATER SUPPLY FORECASTS
FOR
WASHAKIE SOIL CONSERVATION DISTRICT
WASHAKIE COUNTY, WYOMING

March 1, 1960

TO: The Cooperator, Washakie SWCD
FROM: The Board of Supervisors
SUBJECT: 1960 Preliminary Water Supply Outlook

Snow Surveys on Wind River indicate a snow melt runoff of 65 - 70 per cent of normal or 670,000 acre feet of water into Boysen reservoir, according to a report received from Dan L. Herman, Work Unit Conservationist of the Soil Conservation Service. His report states that the contents of Boysen reservoir are 140,500 acre feet of water, which is 31 per cent of the past five year average and 25 per cent of the active capacity of 560,000.

Your Board of Supervisors will issue this report April 1 and May 1 in order to provide you with current information on the status of the ensuing seasonal water supply.

Chairman



Agencies Cooperating in Wyoming Snow Surveys

FEDERAL

U.S. Department of Agriculture
Forest Service
Soil Conservation Service

U.S. Department of Commerce
Weather Bureau

U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE

State Engineer of Wyoming

PRIVATE

Wheatland Irrigation District

Federal - State - Private
COOPERATIVE SNOW SURVEYS

—
Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

—
*"The Conservation of Water begins
with the Snow Survey"*